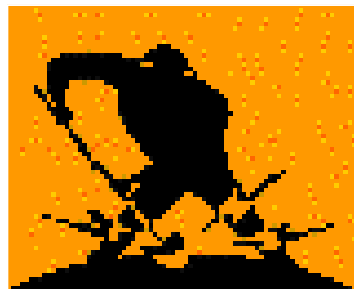


' C L E M E N T J . Z A B L O C K I V A M E D I C A L C E N T E R '

5000 W. NATIONAL AVE.
MILWAUKEE, WI

SITE PROVIDE FISHER HOUSE INFRASTRUCTURE
PROJECT NO.: 695-13-118

CAMPUS MAP



ALL LINE UTILITY SERVICES
12211 W FAIRVIEW AVE. STOP 4
MILWAUKEE, WI 53226
(414) 302-9750

Private Lines Inc.

AAPRIVATE LINES INC.
E3221 STATE RD. 161
IOLA, WI 54945
(888) 246-0220

IN THE CASE OF CONFLICTS OR DISCREPANCIES
WITHIN OR AMONG THE CONTRACT DRAWINGS, THE
BETTER QUALITY, MORE STRINGENT REQUIREMENTS
OR GREATER QUANTITY OF WORK, AS DETERMINED
BY THE GOVERNMENT, SHALL BE PROVIDED.

PROJECT TEAM

CIVIL
CHEQUAMEGON BAY ENGINEERING, INC.
ASHLAND, WI
211 8TH STREET WEST
ASHLAND, WI 54806
PHONE: (715) 682-6004
FAX: (715) 682-6025
MILWAUKEE, WI
933 N. MAYFAIR RD.
SUITE 100
MILWAUKEE, WI 53226
PHONE: (414) 258-6004
FAX: (414) 258-6154

SITE ELECTRIC / IT/ MECHANICAL
THE MATRIX GROUP
MILWAUKEE, WI
311 E. CHICAGO ST. SUITE 310
MILWAUKEE, WI 53202
PHONE: (414) 329-2827
FAX: (414) 329-2823

LANDSCAPE ARCHITECT
DAMON FARBER ASSOCIATES
MINNEAPOLIS, MN
923 NICOLLET MALL
MINNEAPOLIS, MN 55402
PHONE: (612) 332-7522
FAX: (612) 332-0936

SHEET INDEX

DRAWING SHEET INDEX	
SHEET NO.	SHEET TITLE
G100	TITLE SHEET, INDEX & PROJECT INFORMATION
C000	CIVIL PLAN INFORMATION
C100	OVERALL EXISTING CONDITIONS
C101	SITE DEMOLITION PLAN
C102	PROPOSED SITE LAYOUT
C102.1	DETAILED SITE LAYOUT
C103	PROPOSED GRADING PLAN
C103.1	EROSION CONTROL PLAN
C104	PROPOSED SITE UTILITY LAYOUT
C104.1	UTILITY PROFILE SHEET
C105	ROAD PROFILE AND DETAILS
C106	STEAM TUNNEL EAST PLAN AND PROFILE
C106.1	STEAM TUNNEL WEST PLAN AND PROFILE
C106.2	STEAM TUNNEL DETAILS
C107	DETAILS
C107.1	DETAILS
L100	SITE LANDSCAPE PLAN
MS100	OVERALL MECHANICAL SITE PLAN
MS101	ENLARGED MECHANICAL PLANS
MS102	DETAILS
E000	ELECTRICAL SYMBOLS LIST AND ABBREVIATIONS
E100	SITE PLAN - EXISTING CONDITIONS
E200	SITE PLAN - POWER AND LIGHTING
E300	SITE PLAN - LOW VOLTAGE SYSTEMS
E400	ELECTRICAL ONE LINE DIAGRAM AND DETAILS

STATEMENT OF BID ITEM(S):

BASE BID: WORK INCLUDES GENERAL CONSTRUCTION, ALTERATIONS, ROADS, WALKS, GRADING, DRAINAGE; MECHANICAL, ELECTRICAL, TELEPHONE AND DATA SITE WORK AND INSTALLATION, UTILITY SYSTEMS (WATER UTILITY, STORM SEWER, SANITARY SEWER, AND GAS INSTALLATION), INSTALLATION OF NEW STEAM TUNNEL AND STEAM LINE, INSTALLATION OF BUILDING SECURITY SYSTEMS, FIRE ALARM, POLICE CALL AND NECESSARY REMOVAL OF EXISTING STRUCTURES AND CONSTRUCTION AND CERTAIN OTHER ITEMS AS ILLUSTRATED ON THE PLANS.

PHASE I OF CONSTRUCTION CONSISTS OF: ALL GRADING, ROAD IMPROVEMENTS, CURB & GUTTER, UTILITY EXTENSIONS AND RELOCATIONS, STEAM TUNNEL AND STEAM PIPING SYSTEM INSTALLATION, LANDSCAPING, SIDEWALK INSTALLATION, SITE LIGHTING AND ANY OTHER IMPROVEMENTS AS ILLUSTRATED ON THE PLANS

DURATION: 120 DAYS FROM NOTICE TO PROCEED

PHASE II OF CONSTRUCTION CONSISTS OF: ALL FISHER HOUSE BUILDING SYSTEM INSTALLATION AS REQUIRED BY THE PLANS (SECURITY SYSTEMS, CARD READERS, FIRE ALARM, ETC.). PHASE II CONSISTS OF INSTALLATION OF BUILDING IMPROVEMENTS AFTER SIGNIFICANT CONSTRUCTION OF THE FISHER HOUSE IS COMPLETE (UNDER SEPARATE CONTRACT). PHASE II IS TO BE COORDINATED/COMPLETED AFTER THE FISHER HOUSE IS AT LEAST 80% COMPLETE.

DURATION: 90 DAYS FROM START OF WORK WITHIN FISHER HOUSE. COORDINATE WITH VA COR AND FISHER HOUSE REPRESENTATIVE.

PRICE FOR BASE BID: \$ _____

ALTERNATE NO. 1: -

ALL WORK IN BASE BID, MINUS INSTALLATION OF NEW ROAD BASE AND NEW 2.5" BINDER COURSE. ALTERNATE TO INCLUDE COSTS FOR RECYCLING EXISTING ROAD SURFACE AND EXISTING SUBGRADE FOR RE-USE AS NEW ROAD SUBGRADE AND USING EXISTING RECYCLED MATERIAL FOR 2.5" ASPHALT BINDER COURSE. ASSUME EXISTING ROAD SUB-BASE THICKNESS IS 6" AND PAVEMENT THICKNESS IS 4" FOR BIDDING PURPOSES. DURATION: 120 DAYS FROM NOTICE TO PROCEED.

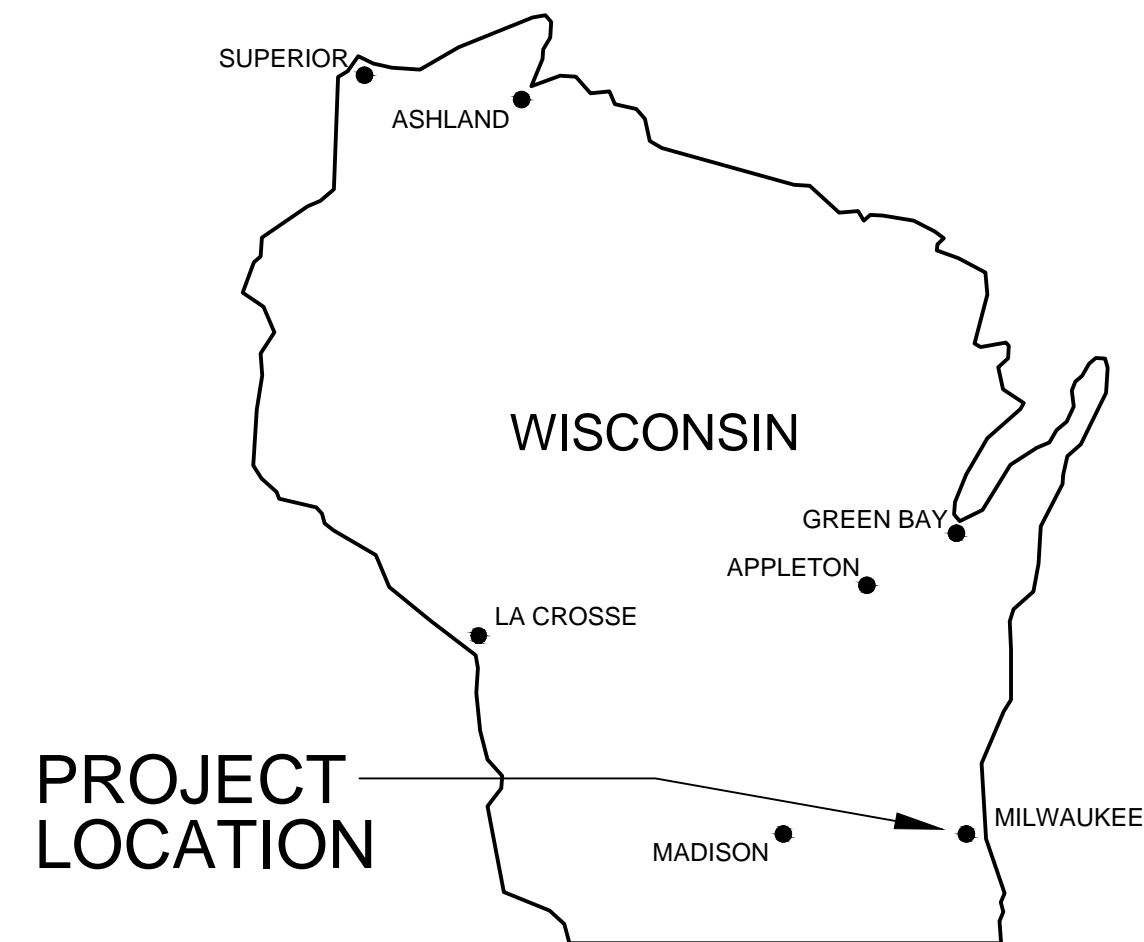
PRICE FOR ALTERNATE BID ITEM 1: \$ _____

ALTERNATE NO. 2: -

ALL WORK IN BASE BID, MINUS INSTALLATION OF NEW CONCRETE TUNNEL SYSTEM, HIGH PRESSURE STEAM LINE, CONDENSATE, AND ALL OTHER WORK ASSOCIATED WITH THE STEAM CONNECTION FROM EXISTING TUNNEL TO BUILDING 102. DURATION: 120 DAYS FROM NOTICE TO PROCEED.

PRICE FOR ALTERNATE BID ITEM 1: \$ _____

LOCATION MAP



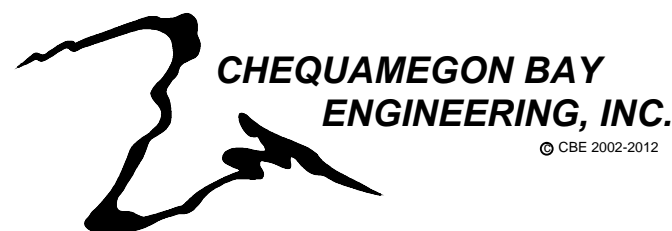
PROJECT LOCATION

CONSULTANTS:



Damon Farber Associates
923 Nicollet Mall
Minneapolis, MN 55402
phone 612.332.7522
fax 612.332.0936
www.damonfarber.com

PROJECT LEAD:



ASHLAND, WI
211 8TH STREET WEST
ASHLAND, WI 54806
PHONE: (715) 682-6004
FAX: (715) 682-6025
MILWAUKEE, WI
933 N. MAYFAIR RD.,
SUITE 100
MILWAUKEE, WI 53226
PHONE: (414) 258-6004
FAX: (414) 258-6154

Drawing Title
Titlesheet, Project Information & Sheet Index

Approved: Project Director

Project Title
Provide Fisher House Infrastructure

Location
VA Medical Center, Milwaukee, WI

Date
19 April 2013

Checked By:
DJC

Drawn By:
NLB

FINAL CONSTRUCTION DOCUMENTS

Project Number
695-13-118

Building Number
-

Drawing Number
G100

Office of
Facilities
Management



three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot

A

B

C

D

E

F

GENERAL CIVIL LEGEND
SEE INDIVIDUAL SHEETS FOR VARIATION

LEGEND:

EXISTING HIGH QUALITY TREE

EXISTING LOW QUALITY TREE

EXISTING GAS LINE

EXISTING WATER LINE

EXISTING STORM SEWER LINE

EXISTING SANITARY SEWER LINE

EXISTING UNDERGROUND ELECTRIC

EXISTING COMMUNICATIONS LINE

EXISTING STEAM LINE

EXISTING COMMUNICATIONS PEDESTAL

EXISTING CATCH BASIN

EXISTING SANITARY MANHOLE

EXISTING WATER VALVE

EXISTING HYDRANT

BENCHMARK LOCATION

EXISTING LIGHT POLE

EXISTING ELECTRICAL MANHOLE

EXISTING TRANSFORMER

EXISTING BOLLARD

EXISTING SIGN

FENCE LINE

PROPOSED 2" GAS LINE

PROPOSED WATER LINE (2"x4")

PROPOSED 6" STORM SEWER

PROPOSED 6" SANITARY

PROPOSED 2" IRRIGATION SERVICE

PROPOSED WATER VALVE

PROPOSED GAS VALVE

PROPOSED ROOF DRAIN COLLECTION POINT

EXISTING STORM SEWER STRUCTURE SCHEDULE

EXISTING STORM INLETS		
CB1 (ROUND) RIM: 630.47 INV. NW: 625.40 (8") INV. SE: 625.30 (12")	CB5 (SQUARE) RIM: 641.23 T.O. VERTICAL PIPE: 639.7	CB9 (SQUARE) RIM: 634.42 INV. E: 629.7 (12")
CB2 (SQUARE) RIM: 631.44 INV. NW: 628.10 (8") INV. SE: 628.10 (8")	CB6 (ROUND) RIM: 625.06 INV. N: 642.7 (12") INV. S: 642.7 (12")	CB10 (ROUND) RIM: 636.81 INV. N: 631.7 (12") INV. S: 631.7 (12") INV. W: 632.5 (8")
CB3 (ROUND) RIM: 633.41 INV. S: 630.30 (8")	CB7 (SQUARE) RIM: 652.26 INV. N: 643.7 (12") INV. W: 643.7 (12")	CB11 (SQUARE) RIM: 638.50 INV. E: 634.6 (8")
CB4 (SQUARE) RIM: 637.26 T.O. VERTICAL PIPE: 635.8	CB8 (SQUARE) RIM: 634.11 INV. E: 629.4 (12")	

EXISTING SANITARY SEWER STRUCTURE SCHEDULE

EXISTING CONCRETE SANITARY MANHOLES

MS1
RIM: 630.94
INV. NW: 620.34 (8")
INV. SE: 626.50 (8")

STORM MANHOLES, INLETS AND SANITARY MANHOLE SCHEDULE COMPILED FROM SIGMA GROUP SURVEY INFORMATION

TOPOGRAPHIC SURVEY COMPLETED BY THE SIGMA GROUP IN JANUARY, 2013.

PROPOSED STORM SEWER STRUCTURE SCHEDULE

CONCRETE STORM MANHOLES

MH10 (NOT IN CONTRACT)
RIM: (SET PER FISHER
CONTRACT - FINISH GRADE ~643.5')
INV. N: 634.00 (8")
INV. NE: ROOF DRAIN
INV. S: 633.90 (8")

PROPOSED STORM SEWER STRUCTURE SCHEDULE

CONCRETE CATCH BASINS

CB20 (NOT IN CONTRACT)
RIM: 646.0
INV. S: 641.0 (8")

CB21
RIM: 643.3
INV. S: 641.8 (8")

PROPOSED SANITARY SEWER STRUCTURE SCHEDULE

CONCRETE SANITARY MANHOLES

MS01
RIM: 637.0' (MATCH GRADE)
INV. SW = 630.0'
INV. NE = TO BE INSTALLED BY FISHER HOUSE CONTRACTOR

UTILITY NOTES:

UTILITIES SHOWN ARE AS REPORTED TO THE DESIGN TEAM AND INDICATED ON THE EXISTING UTILITY BASE PLAN. NO ATTEMPTS HAVE BEEN MADE TO EXCAVATE, UNCOVER, OR EXPOSE UNDERGROUND UTILITIES TO VERIFY THEIR SIZE, DEPTH, CONDITION, OR EXACT LOCATION. FOR ADDITIONAL INFORMATION PLEASE CONTACT ONE OF THE CONTACTS LISTED BELOW

COR
CHRIS BRAUN
ZABLOCKI VA
PHONE: 414-384-2000 EXT. 46586
EMAIL: CHRISTIAN.BRAUN@VA.GOV

ELECTRIC
SCOTT LADWIG
ZABLOCKI VA
PHONE: 414-384-2000
EMAIL: SCOTT.LADWIG@VA.GOV

STEAM/MECHANICAL SYSTEMS
KEN SHARBET
ZABLOCKI VA
PHONE: 414-384-2000 EXT. 41060
EMAIL: KENNETH.SHARBET@VA.GOV
(CONFIRM)

WATER/SEWER
JEFF BAKER
ZABLOCKI VA
PHONE: 414-384-2000
EMAIL: JEFF.BAKER@VA.GOV

CABLE/IT/PHONE
WARREN WHITE
ZABLOCKI VA
PHONE: 414-382-5397
EMAIL: WARREN.WHITE@VA.GOV

WE ENERGIES
BOB BARCZAK
WE ENERGIES
PHONE: 414-944-5779
EMAIL: ROBERT.BARCZAK@WE-ENERGIES.COM

ONE CALL SYSTEM
ALL LINE UTILITY SERVICES
414-302-9750
OR
PRIVATE LINES INC.
888-246-0220

GENERAL NOTES

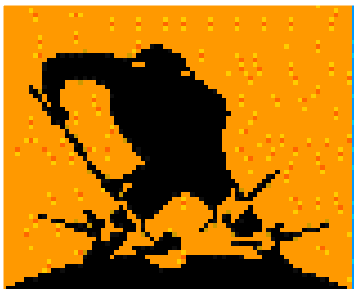
- EXISTING CONDITIONS AND TOPOGRAPHIC FEATURES, INCLUDING UTILITIES, HAVE BEEN LOCATED FROM FIELD LOCATES BY BLOOD HOUND INC. AND SURVEY BY THE SIGMA GROUP DATED JANUARY 2013 AND/OR UTILITY RECORDS.
- THE AWARDED CONTRACTOR MUST COMPLY WITH THE CONDITIONS OF ALL PERMITS OBTAINED IN CONJUNCTION WITH THIS WORK. COPIES OF ALL PERMITS, IF ANY, ARE AVAILABLE IN THE PROJECT MANUAL OR ARE AVAILABLE FROM THE OWNER UPON REQUEST.
- ALL STORM SEWER AND SANITARY SEWER CONSTRUCTION MUST BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARD VA SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION.
- ALL ROADWAY, GRADING AND OTHER SITE WORK MUST BE COMPLETED IN ACCORDANCE WITH THE STANDARD VA SPECIFICATIONS.
- THE CONTRACTOR SHALL COMPLY WITH ALL PERTINENT PROVISIONS OF THE "SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION" ISSUED BY THE U.S. DEPARTMENT OF LABOR.
- PERIODIC TEMPORARY TRAFFIC CONTROL MAY BE REQUIRED IN ORDER TO COMPLETE SITE WORK. THE CONTRACTOR MUST NOTIFY THE CONTRACTING OFFICER'S REPRESENTATIVE (COR) 24 HRS. PRIOR TO IMPACTING ANY TRAFFIC LANES. TEMPORARY TRAFFIC CONTROL WILL BE INCIDENTAL TO THE CONSTRUCTION ACTIVITIES.
- THE CONTRACTOR SHALL PROTECT ALL UTILITIES AND SITE IMPROVEMENTS TO REMAIN. ANY DAMAGE TO EXISTING UTILITIES OR SITE IMPROVEMENTS TO REMAIN SHALL BE REPAIRED BY THE CONTRACTOR. ANY NECESSARY REPAIRS MUST BE REPAIRED TO THE OWNER'S SPECIFICATIONS AND COORDINATED WITH THE ZABLOCKI VAMC COR. NECESSARY REPAIRS FOR DAMAGE WILL BE COMPLETED AT THE CONTRACTOR'S EXPENSE.
- IN THE EVENT OF ANY DISCREPANCIES AND/OR ERRORS FOUND IN THE DRAWINGS, OR IF PROBLEMS ARE ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE COR AND ARCHITECT-ENGINEER IMMEDIATELY, PRIOR TO PROCEEDING WITH WORK. IF THE COR IS NOT NOTIFIED IMMEDIATELY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF ANY REVISIONS TO THE PLANS AND SPECIFICATIONS, AS WELL AS REPAIRS DO TO CONTINUED CONSTRUCTION AFTER AN ERROR OR DISCREPANCY IS FOUND.
- ALL CONTROL POINTS AND COORDINATES LISTED ARE BASED ON THE SURVEY PREPARED BY THE SIGMA GROUP. CONTRACTOR MUST VERIFY CONTROL POINTS IN THE FIELD AND WITH THE SIGMA GROUP. TO CONFIRM THEY ARE VALID PRIOR TO CONSTRUCTING THE SITE LAYOUT.
- CONTRACTOR IS SOLELY RESPONSIBLE TO PROVIDE ADVANCED NOTICE TO THE DESIGNATED "ONE CALL SYSTEM" NOT LESS THAN THREE WORKING DAYS PRIOR TO COMMENCEMENT OF ANY EXCAVATION REQUIRED TO PERFORM WORK CONTAINED ON THE ATTACHED PLAN SET.
- EXISTING CONDITIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF ANY WORK. DISCREPANCIES ARE TO BE REPORTED TO THE COR PRIOR TO STARTING WORK.
- CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION STAKING.

NOTES:

- BENCHMARK #1 IS SOUTH FLANGE BOLT ON HYDRANT, EL.=649.29'.
- BENCHMARK #2 IS SOUTH FLANGE BOLT ON HYDRANT, EL.=632.29
- STEAM LINES SHOWN ARE PER CAD DRAWINGS PROVIDED BY THE VA AND BEST FIT BASED ON EXISTING STRUCTURES. FURTHER VERIFICATION USING EXPLORATIVE METHODS MAY BE NECESSARY TO DETERMINE THE EXACT LOCATION.
- IN THE CASE OF CONFLICTS OR DISCREPANCIES WITHIN OR AMONG THE CONTRACT DRAWINGS, THE BETTER QUALITY, MORE STRINGENT REQUIREMENTS OR GREATER QUANTITY OF WORK, AS DETERMINED BY THE GOVERNMENT, SHALL BE PROVIDED.

PERMITTING NOTES:

SITE IS LESS THAN 1 ACRE OF DISTURBED AREA
SITE IS LESS THAN 1/2 ACRE OF ADDED IMPERVIOUS AREA



ALL LINE UTILITY SERVICES
12211 W FAIRVIEW AVE. STOP 4
MILWAUKEE, WI 53226
(414) 302-9750

Private Lines Inc.

APPRIVATE LINES INC.
E3221 STATE RD. 161
IOLA, WI 54945
(888) 246-0220



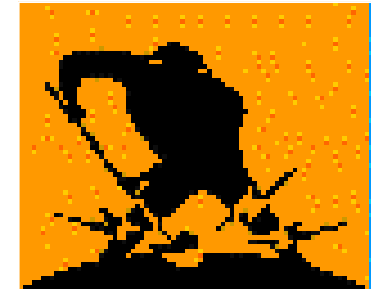
Toll Free (800) 242-8511
Milwaukee Area (414) 259-1181
Hearing Impaired TDD (800) 542-2289
www.DiggersHotline.com

THE LOCATIONS OF EXISTING UTILITY INSTALLATIONS AS SHOWN ON THIS PLAN ARE APPROXIMATE. THERE MAY BE OTHER UNDERGROUND UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

FINAL CONSTRUCTION DOCUMENTS

Revisions:	Date	 Dept. of Veterans Affairs Medical Center 5000 W. National Avenue Milwaukee, WI		CONSULTANTS:   Damon Farber Associates 923 Nicollet Mall Minneapolis, MN 55402 phone 612.332.7522 fax 612.332.0936 www.damonfarber.com	PROJECT LEAD:  ASHLAND, WI 211 6TH STREET WEST ASHLAND, WI 54806 PHONE: (715) 682-6004 FAX: (715) 682-6002 MILWAUKEE, WI 933 N. MAYFAIR RD. SUITE 109 MILWAUKEE, WI 53226 PHONE: (414) 258-8004 FAX: (414) 258-8154	Drawing Title CIVIL PLAN INFORMATION	Project Title Provide Fisher House Infrastructure	Project Number 695-13-118	Office of Facilities Management
						Approved: Project Director	Location VA Medical Center, Milwaukee, WI	Building Number -	Department of Veterans Affairs
							Date 22 April 2013	Checked By: DJC	Drawn By: NLB
								Drawing Number C000	

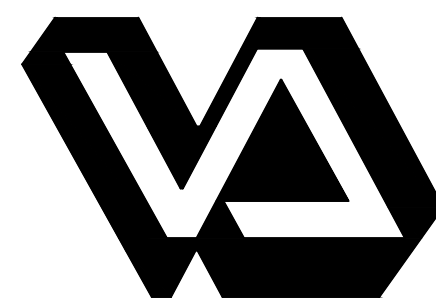
three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot



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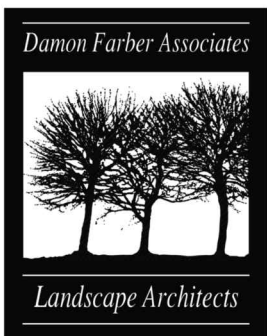
AAPRIVATE LINES INC.
E3221 STATE RD. 161
IOLA, WI 54945
(888) 246-0220



Dept. of Veterans Affairs
Medical Center
5000 W. National Avenue
Milwaukee, WI

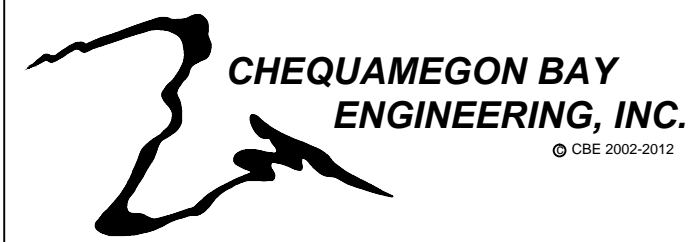


CONSULTANTS:



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923 Nicollet Mall
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fax 612.332.0936
www.damonfarber.com

PROJECT LEAD:



ASHLAND, WI
211 6TH STREET WEST
ASHLAND, WI 54806
PHONE: (715) 682-8004
FAX: (715) 682-8005
MILWAUKEE, WI
933 N. MAYFIELD RD.
SUITE 100
MILWAUKEE, WI 53206
PHONE: (414) 258-6004
FAX: (414) 258-6154

Drawing Title
**OVERALL EXISTING SITE
CONDITIONS**

Approved: Project Director

Project Title
Provide Fisher House Infrastructure

Location
VA Medical Center, Milwaukee, WI

Date
22 April 2013

Checked By:
DJC

Drawn By:
NLB

Project Number
695-13-118

Building Number
-

Drawing Number
C100

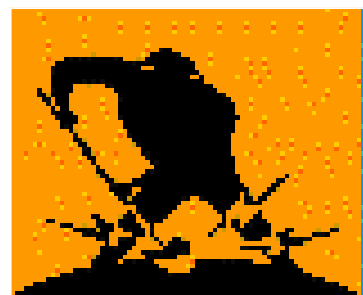
Office of
Facilities
Management



NOTES:
1. BENCHMARK #1 IS SOUTH FLANGE BOLT ON HYDRANT, EL.=649.29'.
2. BENCHMARK #2 IS SOUTH FLANGE BOLT ON HYDRANT, EL.=632.29
3. Steam lines shown are per CAD drawings provided by the VA and best fit based on existing structures. Further verification using explorative methods may be necessary to determine the exact location.

FINAL CONSTRUCTION DOCUMENTS

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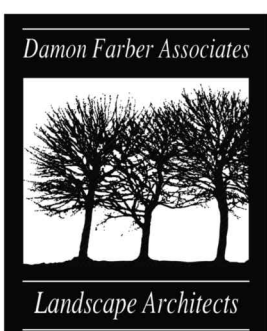
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Dept. of Veterans Affairs
Medical Center
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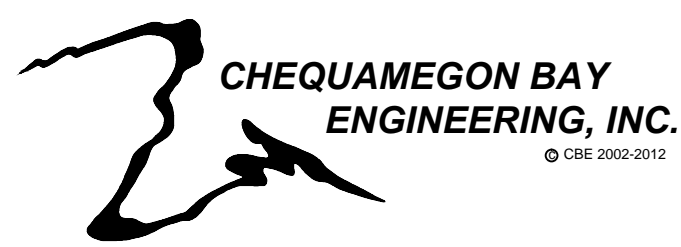


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FAX: (715) 682-8005
MILWAUKEE, WI
933 N. MAYFIELD RD.
SUITE 109
MILWAUKEE, WI 53206
PHONE: (414) 258-6004
FAX: (414) 258-6154

Drawing Title

**SITE DEMOLITION
PLAN**

Approved: Project Director

Project Title

Provide Fisher House Infrastructure

Location

VA Medical Center, Milwaukee, WI

Date

22 April 2013

Checked By:

DJC

Drawn By:

NLB

Project Number

695-13-118

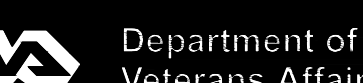
Building Number

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Drawing Number

C101

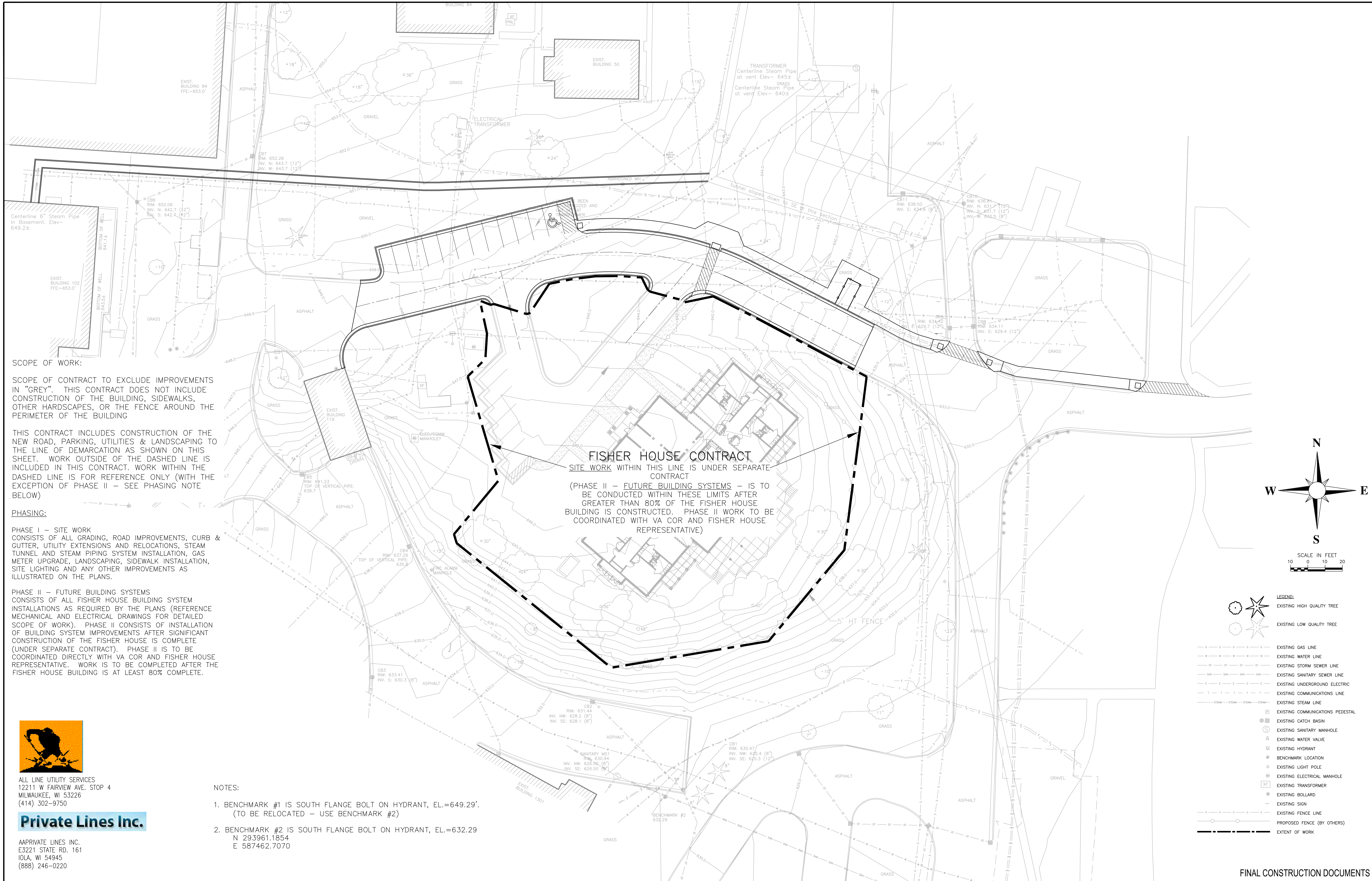
Office of
Facilities
Management

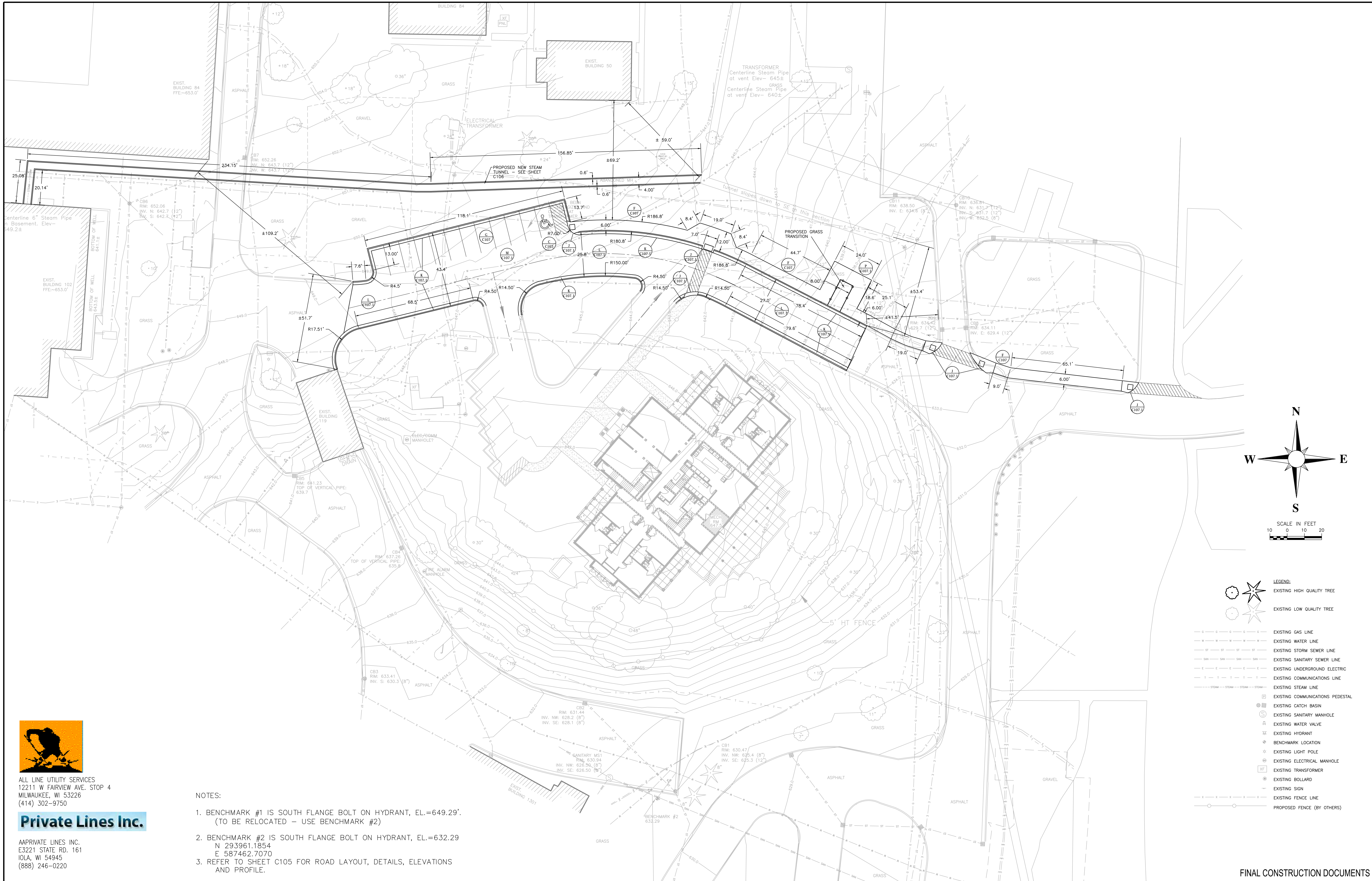


Department of
Veterans Affairs

FINAL CONSTRUCTION DOCUMENTS







Department of
Veterans Affairs

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FISHER HOUSE CONTRACT

EXISTING CONDITIONS AND TOPOGRAPHIC FEATURES, INCLUDING UTILITIES, HAVE BEEN LOCATED FROM FIELD LOCATES BY BLOOD HOUND INC. AND SURVEY BY THE SIGMA GROUP DATED JANUARY 2013 AND/OR UTILITY RECORDS.

ALL ROADWAY, GRADING AND OTHER SITE WORK MUST BE COMPLETED IN ACCORDANCE WITH THE STANDARD VA SPECIFICATIONS.

PERIODIC TEMPORARY TRAFFIC CONTROL MAY BE REQUIRED IN ORDER TO COMPLETE SITE WORK. THE CONTRACTOR MUST NOTIFY THE CONTRACTING OFFICER'S REPRESENTATIVE (COR) 24 HRS. PRIOR TO IMPACTING ANY TRAFFIC LANES. TEMPORARY TRAFFIC CONTROL WILL BE INCIDENTAL TO THE CONSTRUCTION ACTIVITIES.

THE CONTRACTOR SHALL PROTECT ALL UTILITIES AND SITE IMPROVEMENTS TO REMAIN. ANY DAMAGE TO EXISTING UTILITIES OR SITE IMPROVEMENTS TO REMAIN SHALL BE REPAIRED BY THE CONTRACTOR. ANY NECESSARY REPAIRS MUST BE REPAIRED TO THE OWNER'S SPECIFICATIONS AND COORDINATED WITH THE ZABLOCKI VAMC COR. NECESSARY REPAIRS FOR DAMAGE WILL BE COMPLETED AT THE CONTRACTOR'S EXPENSE.

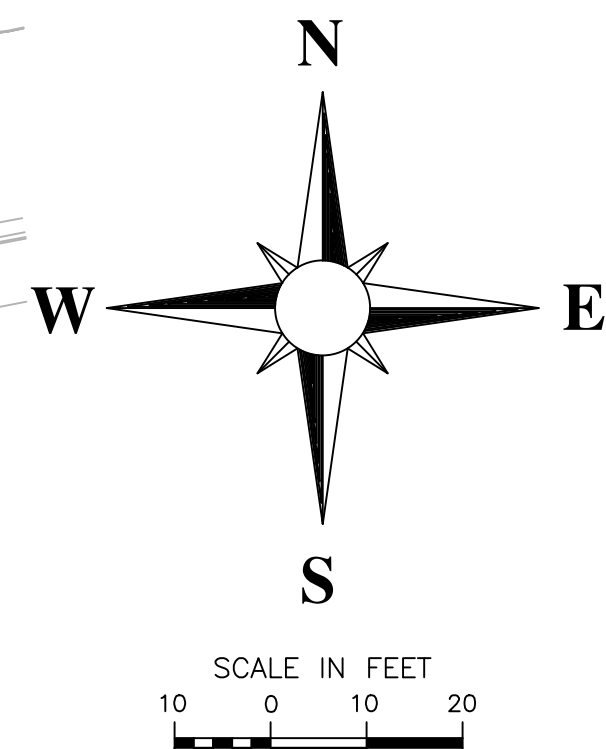
IN THE EVENT OF ANY DISCREPANCIES AND/OR ERRORS FOUND IN THE DRAWINGS, OR IF PROBLEMS ARE ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE COR AND ARCHITECT-ENGINEER IMMEDIATELY. PRIOR TO PROCEEDING WITH WORK. IF THE COR IS NOT NOTIFIED IMMEDIATELY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF ANY REVISIONS TO THE PLANS AND SPECIFICATIONS, AS WELL AS REPAIRS DO TO CONTINUED CONSTRUCTION AFTER AN ERROR OR DISCREPANCY IS FOUND.

ALL CONTROL POINTS AND COORDINATES LISTED ARE BASED ON THE SURVEY PREPARED BY THE SIGMA GROUP. CONTRACTOR MUST VERIFY CONTROL POINTS IN THE FIELD AND WITH THE SIGMA GROUP TO CONFIRM THEY ARE VALID PRIOR TO CONSTRUCTING THE SITE LAYOUT.

CONTRACTOR IS SOLELY RESPONSIBLE TO PROVIDE ADVANCED NOTICE TO THE DESIGNATED "ONE CALL SYSTEM" NOT LESS THAN THREE WORKING DAYS PRIOR TO COMMENCEMENT OF ANY EXCAVATION REQUIRED TO PERFORM WORK CONTAINED ON THE ATTACHED PLAN SET.

EXISTING CONDITIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF ANY WORK. DISCREPANCIES ARE TO BE REPORTED TO THE COR PRIOR TO STARTING WORK.

CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION STAKING.



- LEGEND:
- EXISTING HIGH QUALITY TREE
 - EXISTING LOW QUALITY TREE
 - EXISTING GAS LINE
 - EXISTING WATER LINE
 - EXISTING STORM SEWER LINE
 - EXISTING SANITARY SEWER LINE
 - EXISTING UNDERGROUND ELECTRIC
 - EXISTING COMMUNICATIONS LINE
 - EXISTING STEAM LINE
 - EXISTING COMMUNICATIONS PEDESTAL
 - EXISTING CATCH BASIN
 - EXISTING SANITARY MANHOLE
 - EXISTING WATER VALVE
 - EXISTING HYDRANT
 - BENCHMARK LOCATION
 - EXISTING LIGHT POLE
 - EXISTING ELECTRICAL MANHOLE
 - EXISTING TRANSFORMER
 - EXISTING BOLLARD
 - EXISTING SIGN
 - EXISTING FENCE LINE
 - PROPOSED WATER VALVE
 - PROPOSED GAS VALVE
 - PROPOSED ROOF DRAIN COLLECTION POINT
 - PROPOSED STORM MANHOLE
 - PROPOSED CATCH BASIN
 - PROPOSED STORM SEWER
 - PROPOSED FENCE (BY OTHERS)
 - PROPOSED SPOT ELEVATION
 - NOT IN CONTRACT



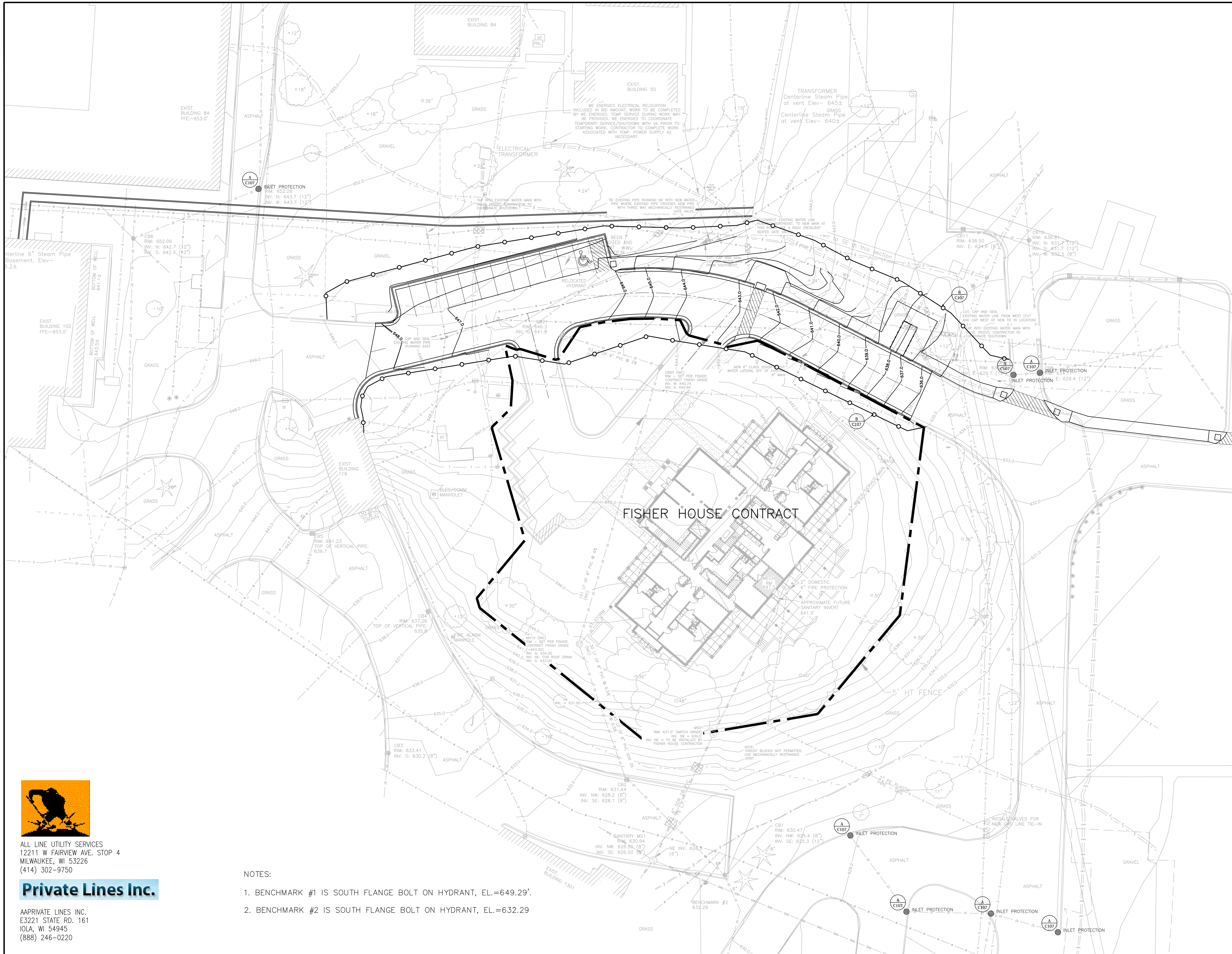
ALL LINE UTILITY SERVICES
12211 W FAIRVIEW AVE. STOP 4
MILWAUKEE, WI 53226
(414) 302-9750

Private Lines Inc.

AAPRIVATE LINES INC.
E3221 STATE RD. 161
IOLA, WI 54945
(888) 246-0220

- NOTES:
- BENCHMARK #1 IS SOUTH FLANGE BOLT ON HYDRANT, EL.=649.29'
 - BENCHMARK #2 IS SOUTH FLANGE BOLT ON HYDRANT, EL.=632.29

<div>Revisions:</div> <div>Date:</div>		<div>Dept. of Veterans Affairs Medical Center 5000 W. National Avenue Milwaukee, WI</div>		<div>CONSULTANTS:</div> <div>THE MATRIX GROUP ENGINEERING CONSULTANTS</div>		<div>PROJECT LEAD:</div> <div>CHEQUAMEGON BAY ENGINEERING, INC.</div>		<div>Drawing Title</div> <div>PROPOSED SITE GRADING PLAN</div> <div>Approved: Project Director</div>		<div>Project Title</div> <div>Provide Fisher House Infrastructure</div> <div>Location</div> <div>VA Medical Center, Milwaukee, WI</div> <div>Date</div> <div>22 April 2013</div> <div>Checked By:</div> <div>DJC</div> <div>Drawn By:</div> <div>NLB</div>		<div>Project Number</div> <div>695-13-118</div> <div>Building Number</div> <div>-</div> <div>Drawing Number</div> <div>C103</div>		<div>Office of Facilities Management</div> <div>Department of Veterans Affairs</div>	
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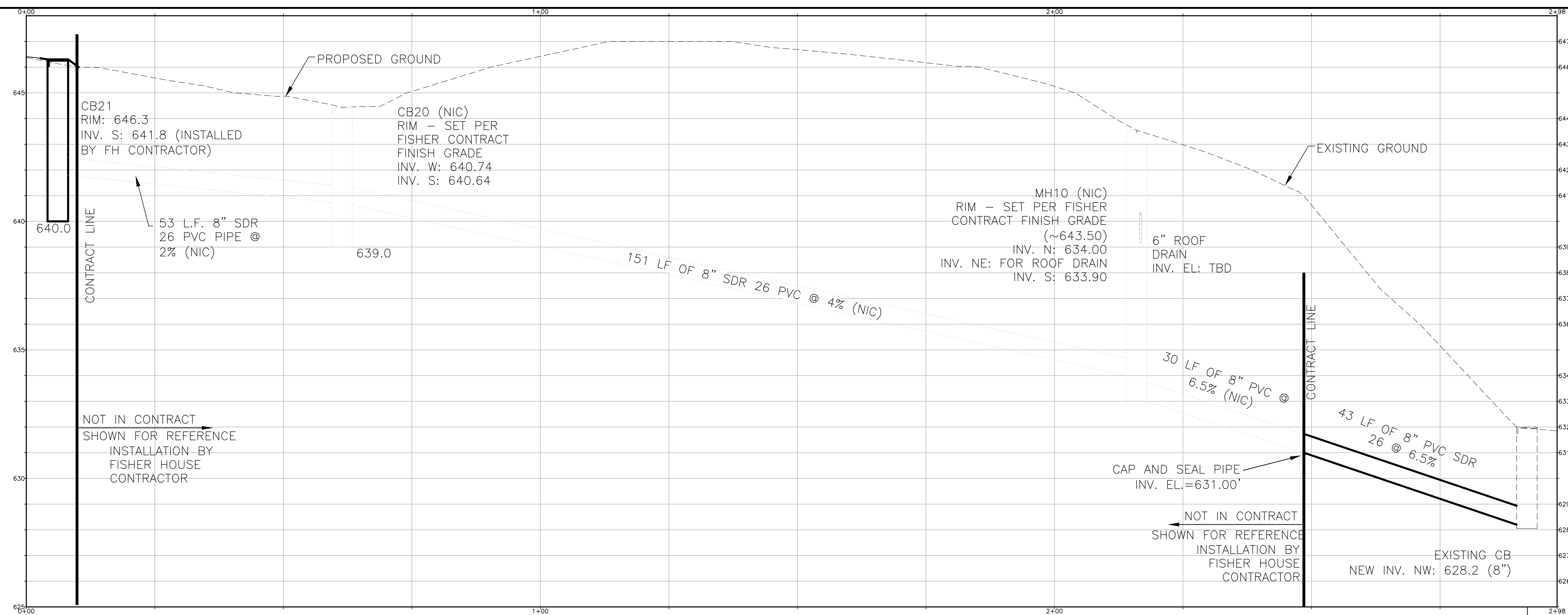


- | | |
|--|--------------------------------------|
| | LEGEND: |
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| | EXISTING LOW QUALITY TREE |
| | EXISTING GAS LINE |
| | EXISTING WATER LINE |
| | EXISTING STORM SEWER LINE |
| | EXISTING SANITARY SEWER LINE |
| | EXISTING UNDERGROUND ELECTRIC |
| | EXISTING COMMUNICATIONS LINE |
| | EXISTING STEAM LINE |
| | EXISTING PEDESTAL |
| | EXISTING CATCH BASIN |
| | EXISTING SANITARY MANHOLE |
| | EXISTING WATER VALVE |
| | EXISTING HYDRANT |
| | BENCHMARK LOCATION |
| | EXISTING LIGHT POLE |
| | EXISTING ELECTRICAL MANHOLE |
| | EXISTING TRANSFORMER |
| | EXISTING BOLLARD |
| | EXISTING SIGN |
| | EXISTING FENCE LINE |
| | PROPOSED WATER VALVE |
| | PROPOSED GAS VALVE |
| | PROPOSED ROOF DRAIN COLLECTION POINT |
| | PROPOSED STORM MANHOLE |
| | PROPOSED CATCH BASIN |
| | PROPOSED STORM SEWER |
| | PROPOSED FENCE (BY OTHERS) |
| | SILT FENCE |
| | INLET PROTECTION |
| | (NIC) NOT IN CONTRACT |

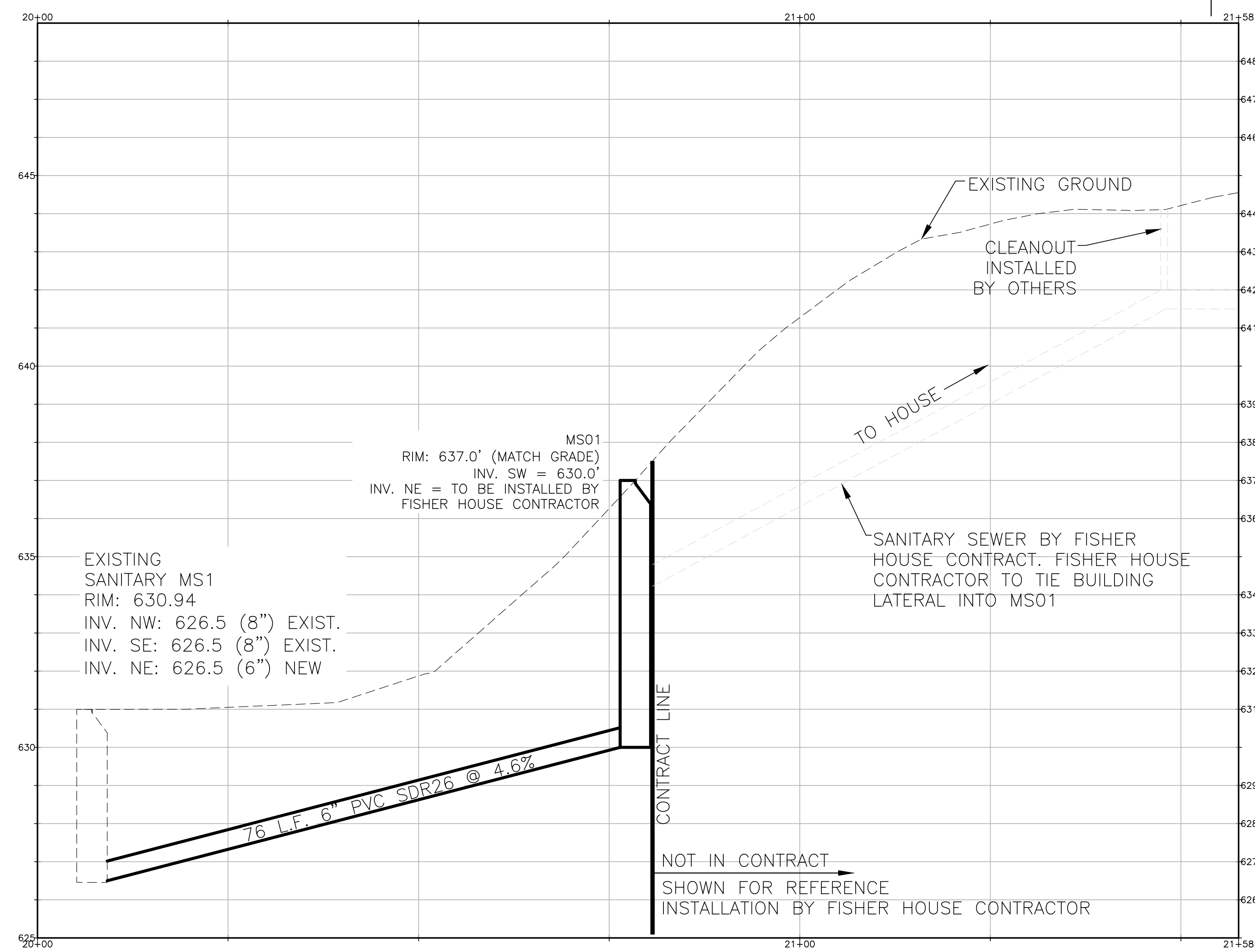
FINAL CONSTRUCTION DOCUMENTS

<div>Revisions:</div> <div>Date</div>	<div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></d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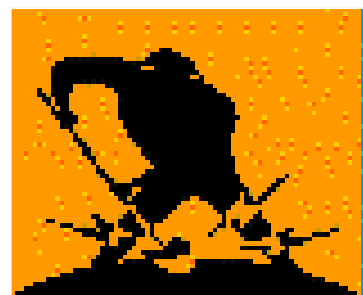




STORM SEWER PROFILE A
SCALE: 1"=10'
VERTICAL EXAGGERATION 5x



SANITARY SEWER PROFILE B
SCALE: 1"=10'
VERTICAL EXAGGERATION 5x



ALL LINE UTILITY SERVICES
12211 W FAIRVIEW AVE. STOP 4
MILWAUKEE, WI 53226
(414) 302-9750

Private Lines Inc.

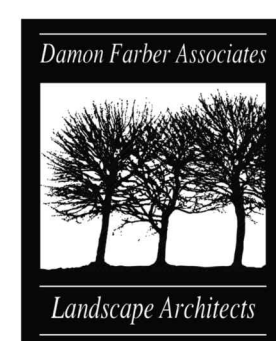
AAPRIVATE LINES INC.
E3221 STATE RD. 161
IOLA, WI 54945
(888) 246-0220

[illegible]

Dept. of Veterans Affairs
Medical Center
5000 W. National Avenue
Milwaukee, WI



CONSULTANTS:



*Damon Farber Associates
923 Nicollet Mall
Minneapolis, MN 55402
phone 612.332.7522
fax 612.332.0936
www.damonfarber.com*

PROJECT LEAD:	
---------------	--

EQUAMEGON BAY
ENGINEERING, INC.

ASHLAND, WI
211 6TH STREET WEST
ASHLAND, WI, 54806
PHONE: (715) 682-6004
FAX: (715) 682-6025

MILWAUKEE, WI
933 N. MAYFAIR RD.,
SUITE 109
MILWAUKEE, WI, 53226
PHONE: (414) 258-6004
FAX: (414) 258-6154

	Drawing Title
--	---------------

UTILITY PROFILES

Approved: Project Director

	Project Title
--	---------------

Project Title	Provide Fisher House Infrastructure
---------------	-------------------------------------

	Location

Date
22 April 2013

Checked By:
D.J.C.

Drawn By:
NIR

Project Number	695-13-118
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Building Number
-

	Drawing Number

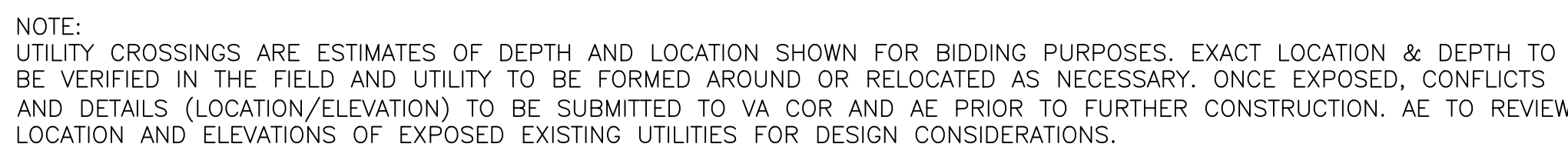
C104.1

Office of
Facilities
Management



CONTRACTOR IS RESPONSIBLE FOR EARTH RETENTION SYSTEM DESIGN ASSOCIATED WITH TUNNEL INSTALLATION, WHERE SITE CONSTRAINTS DO NOT ALLOW STEPPED EXCAVATION.

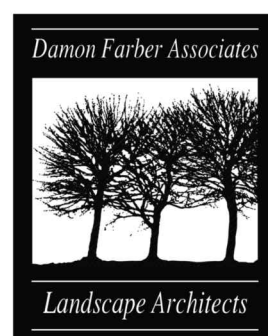
AAPRIVATE LINES INC.
E3221 STATE RD. 161
IOLA, WI 54945
(888) 246-0220




Dept. of Veterans Affairs
Medical Center
5000 W. National Avenue
Milwaukee, WI



THE
MATRIX GROUP
ENGINEERING CONSULTANTS



*Damon Farber Associates
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Minneapolis, MN 55402
phone 612.332.7522
fax 612.332.0936
www.damonfarber.com*



**CHEQUAMEGON BAY
ENGINEERING, INC.**
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ASHLAND, WI
211 6TH STREET WEST
ASHLAND, WI, 54806
PHONE: (715) 682-6004
FAX: (715) 682-6025

MILWAUKEE, WI
933 N. MAYFAIR RD.,
SUITE 109
MILWAUKEE, WI, 53226
PHONE: (414) 258-6004
FAX: (414) 258-6154

Approved: Project Director

Location	VA Medical Center, Milwaukee, WI
----------	----------------------------------

Date
22 April 2015

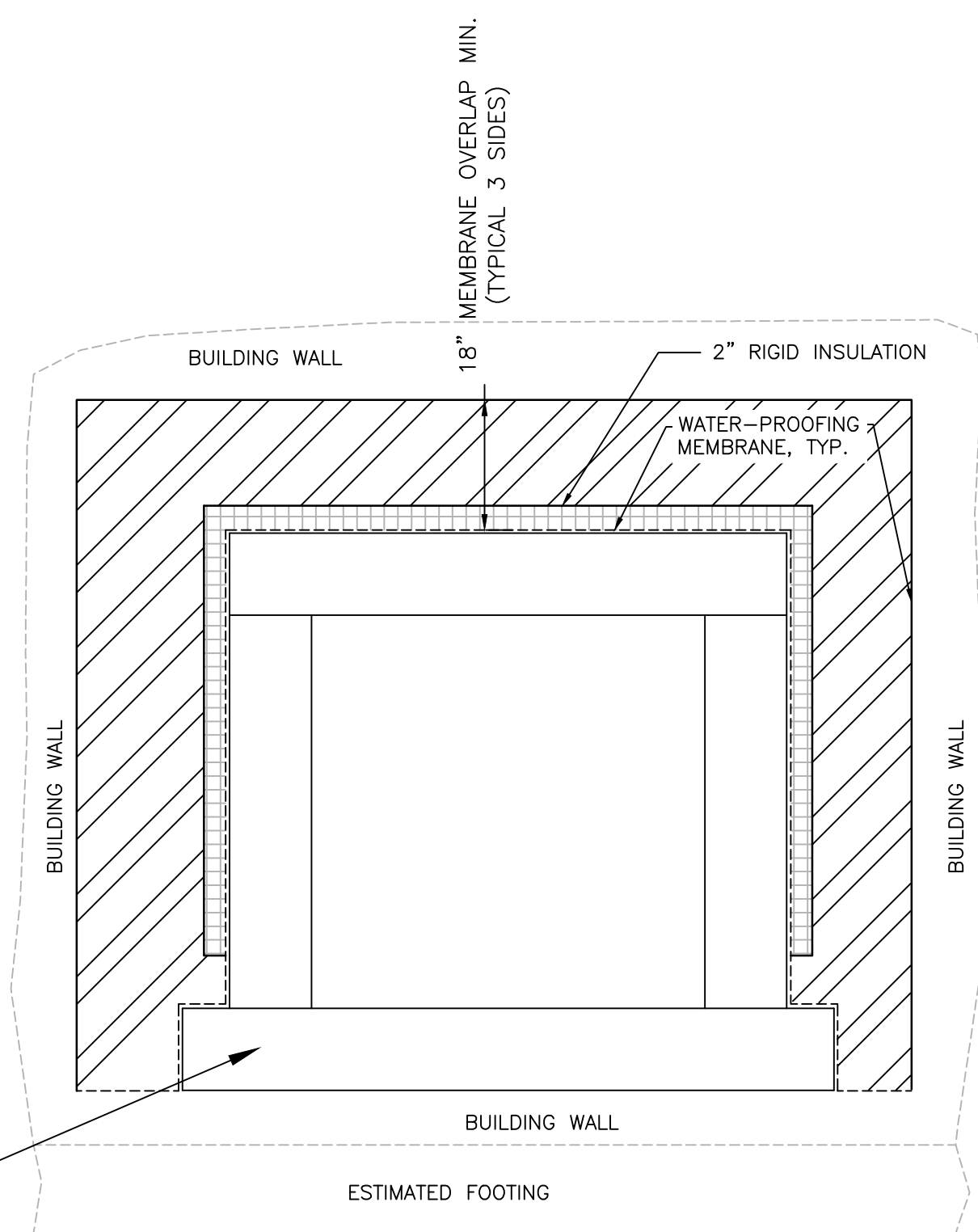
Center, Milwaukee

Waukegan, WI

C106

Office of
Facilities
Management





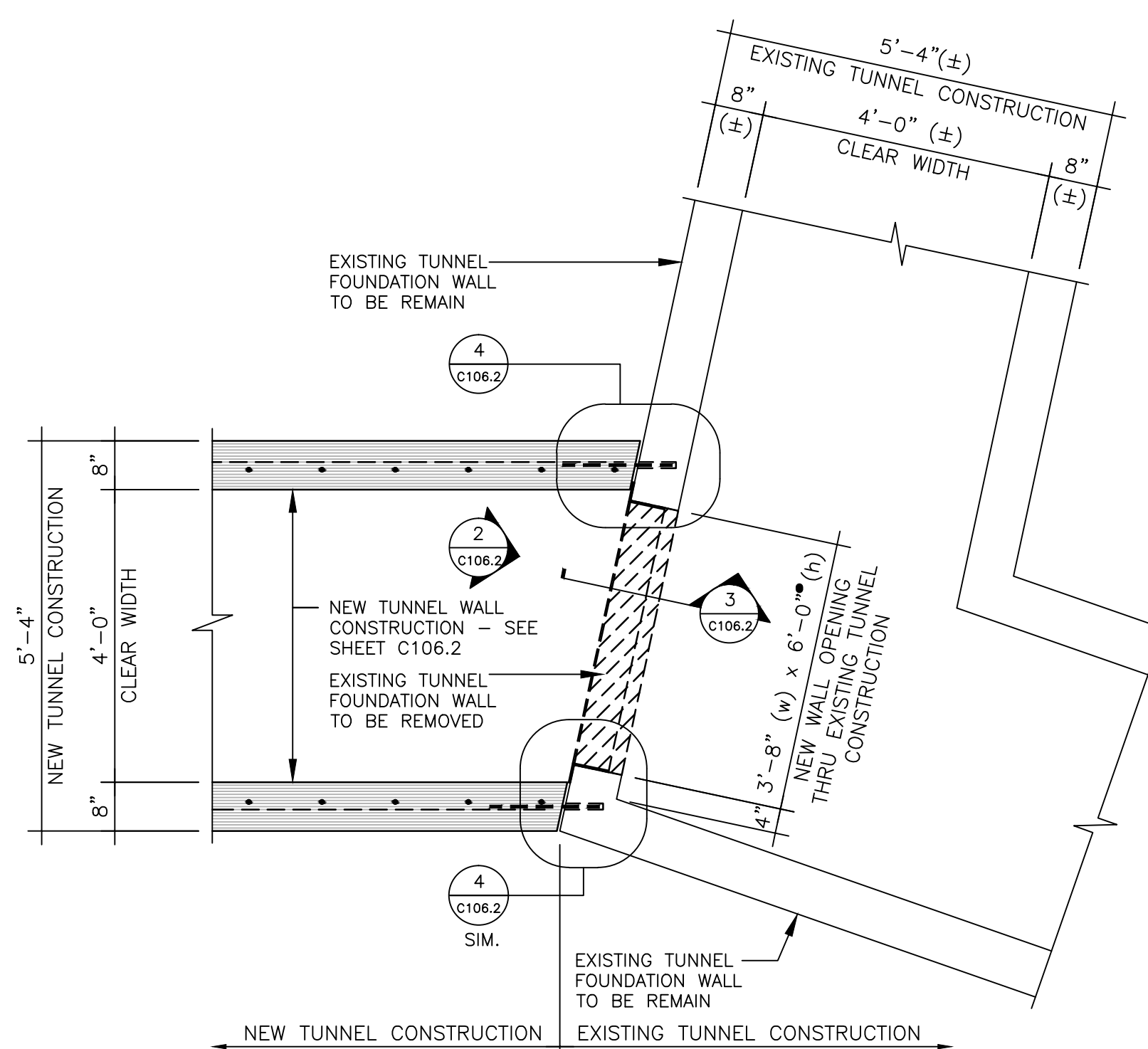
NEW TUNNEL CONNECTION AT BUILDING 102 WALL



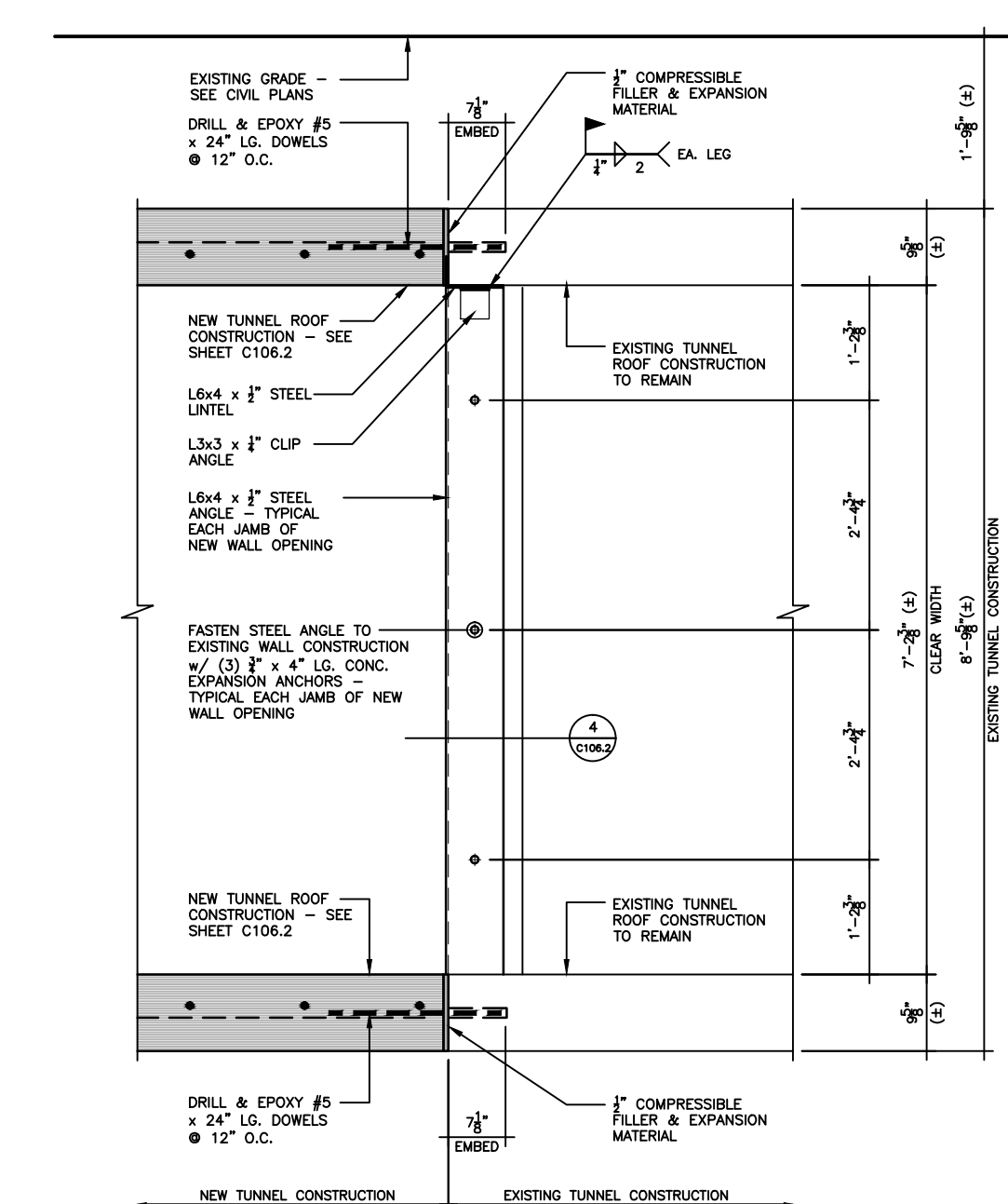
ALL LINE UTILITY SERVICES
12211 W FAIRVIEW AVE. STOP 4
MILWAUKEE, WI 53226
(414) 302-9750

Private Lines Inc.

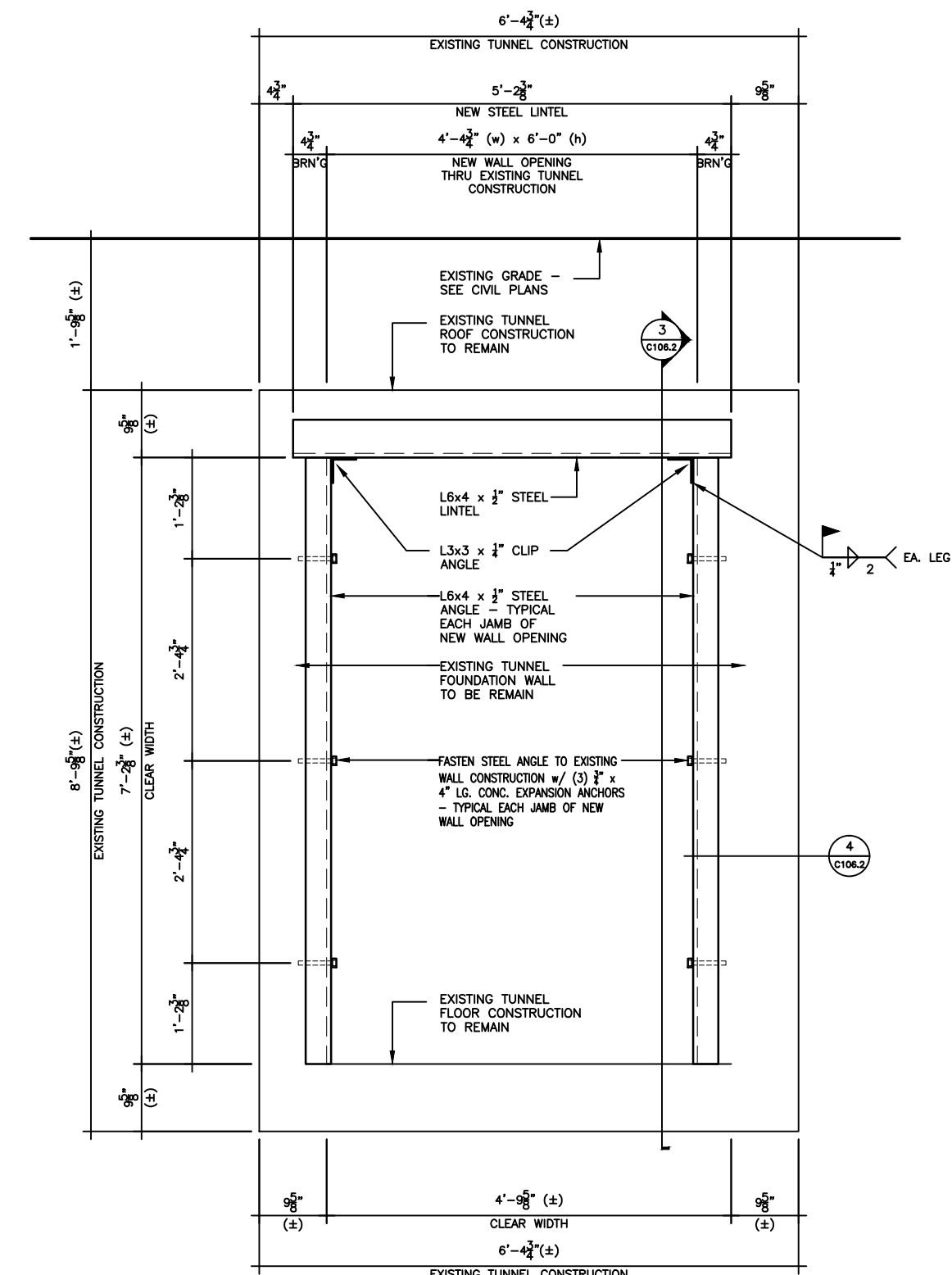
AAPRIVATE LINES INC.
E3221 STATE RD. 161
IOLA, WI 54945
(888) 246-0220



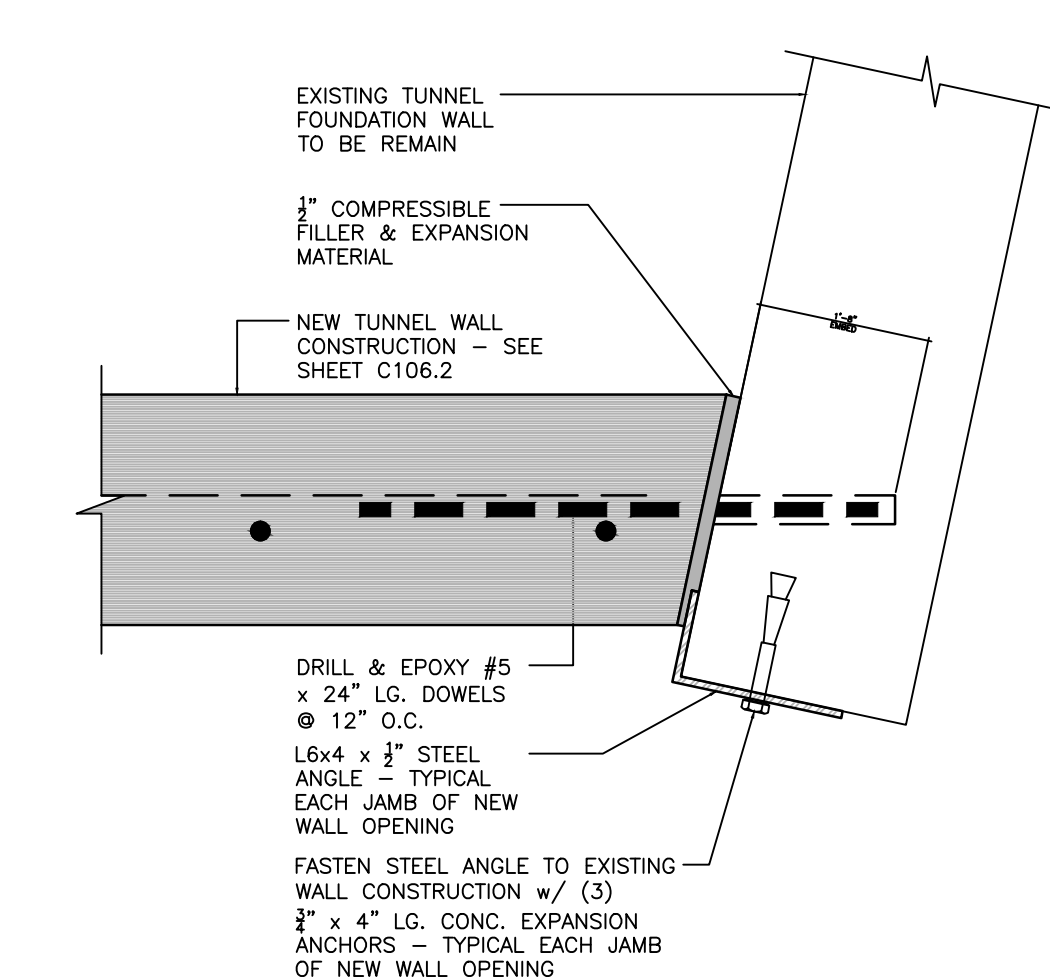
1 NEW TUNNEL CONNECTION PLAN @ EXISTING TUNNEL CONSTRUCTION
SCALE: NONE



3 NEW-TO-EXISTING TUNNEL SECTION
SCALE: NONE



2 INTERIOR TUNNEL ELEVATION @ EXISTING TUNNEL CONSTRUCTION
SCALE: NONE



4 TYPICAL JAMB DETAIL @ NEW WALL OPENING @ EXISTING TUNNEL

[illegible]

Dept. of Veterans Affairs
Medical Center
5000 W. National Avenue
Milwaukee, WI

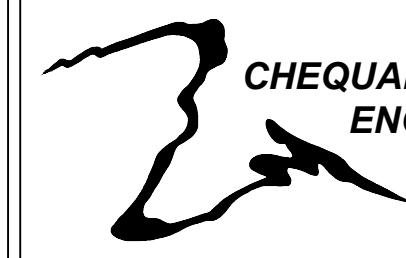


CONSULTANTS:



Damon Farber Associates
923 Nicollet Mall
Minneapolis, MN 55402
phone 612.332.7522
fax 612.332.0936
www.damonfarber.com

PROJECT LEAD:



ASHLAND, WI
211 6TH STREET WEST
ASHLAND, WI, 54806
PHONE: (715) 682-6004
FAX: (715) 682-6025

MILWAUKEE, WI
933 N. MAYFAIR RD.,
SUITE 109
MILWAUKEE, WI, 53226
PHONE: (414) 258-6004
FAX: (414) 258-6154

Drawing Title	STEAM TUNNEL DETAILS
---------------	-------------------------

Approved: Project Director

Project Title	Provide Fisher House Infrastructure
---------------	-------------------------------------

	Location

Date
22 April 2013

Center, Milwaukee

Checked By: D.J.C.

Waukegan, WI
Drawn By:
NIB

Project Number	695-13-118
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Building Number
-

	Drawing Number

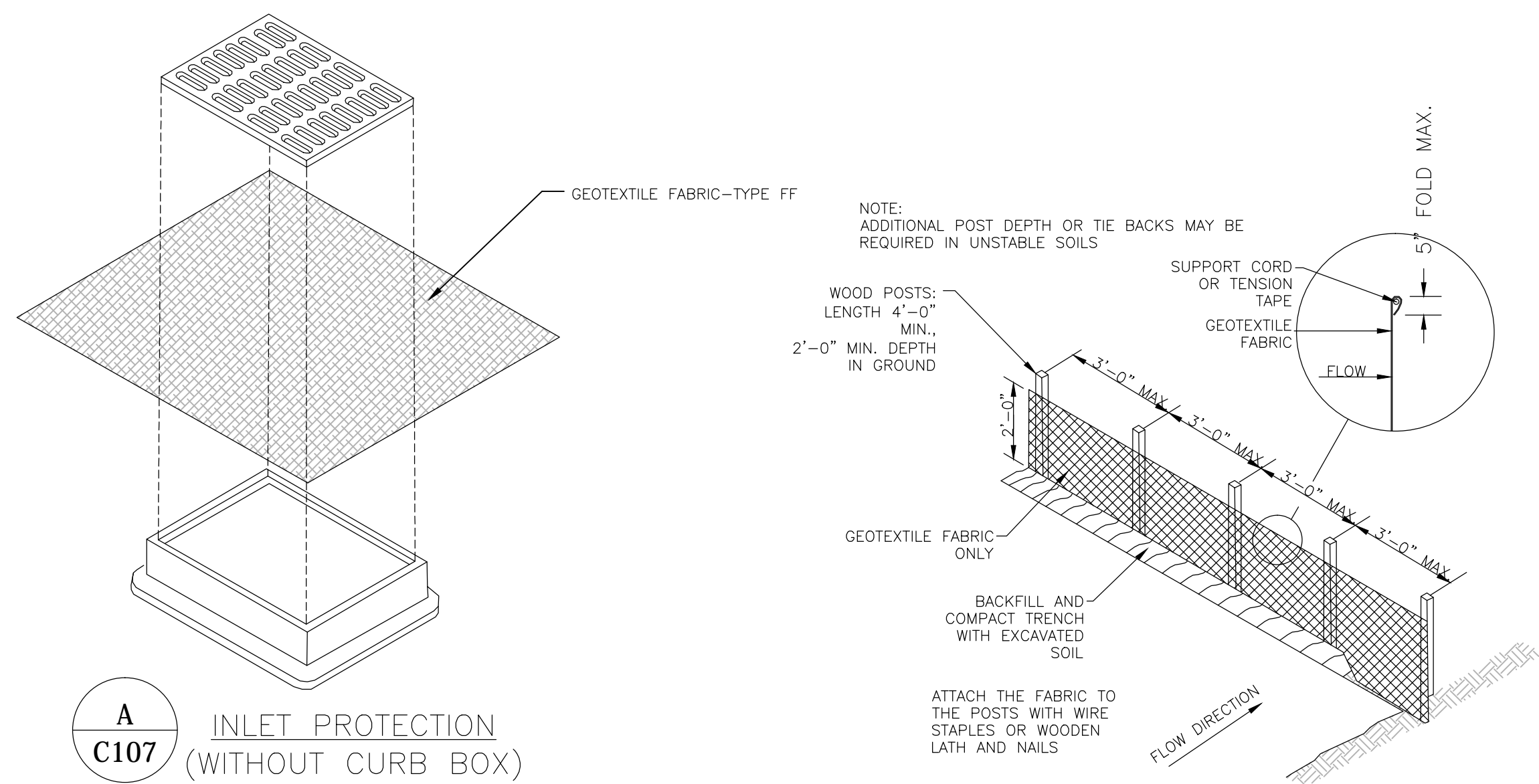
C106.2

Office of
Facilities
Management

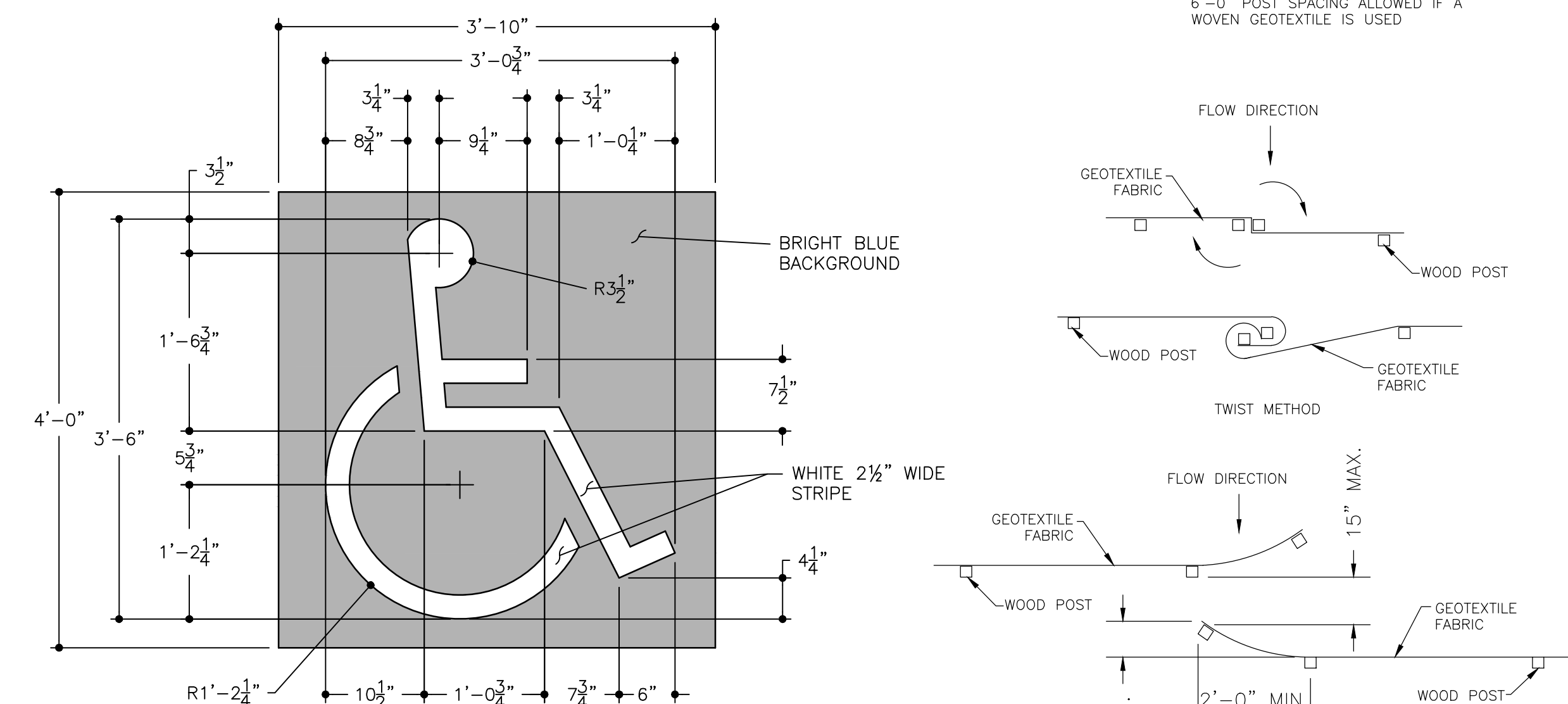


FINAL CONSTRUCTION DOCUMENTS

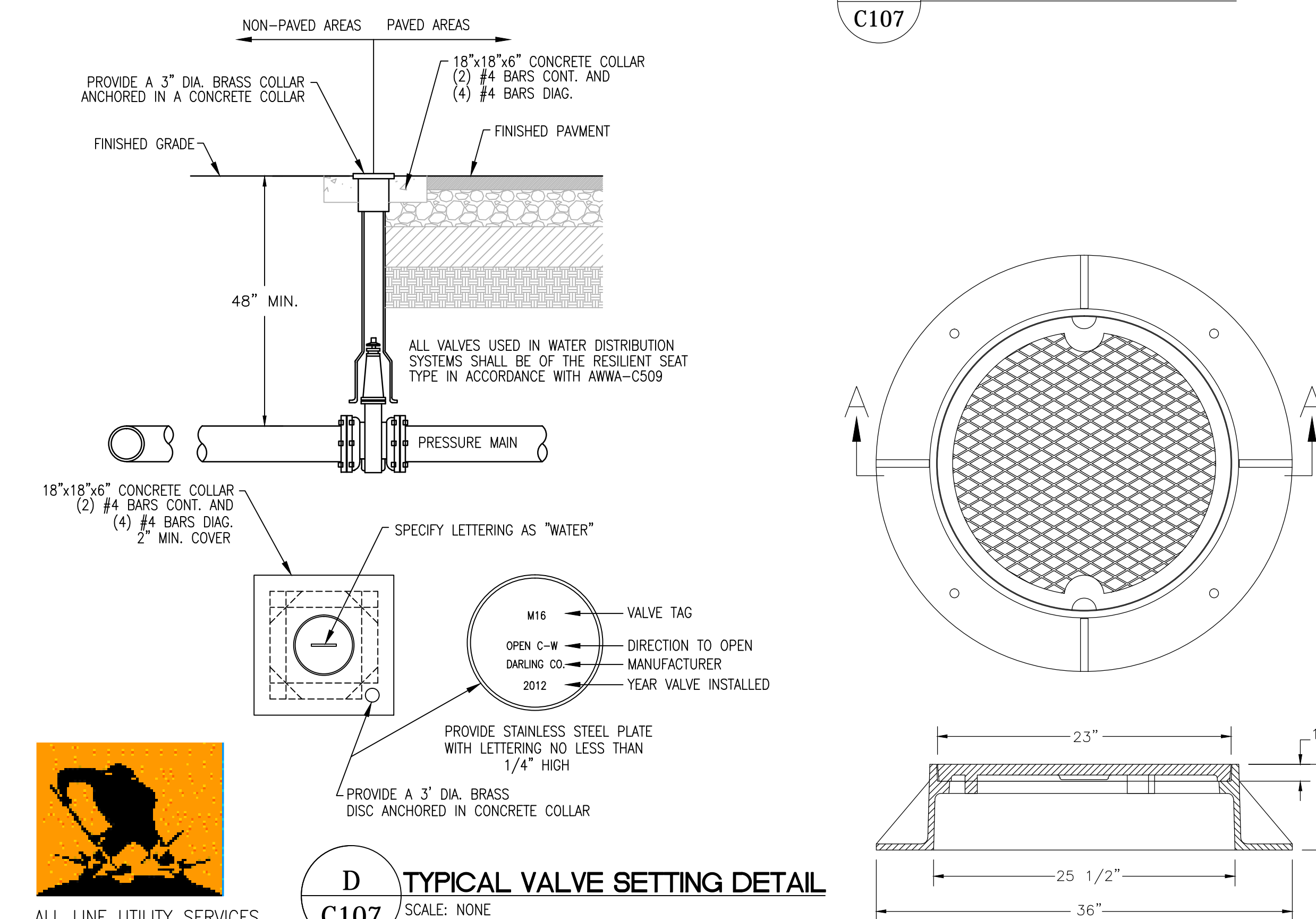
three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
one quarter inch = one foot
three eighths inch = one foot
one eighth inch = one foot



A
C107
INLET PROTECTION
(WITHOUT CURB BOX)
CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX



C
C107
INTERNATIONAL HANDICAP SYMBOL
SCALE: NONE



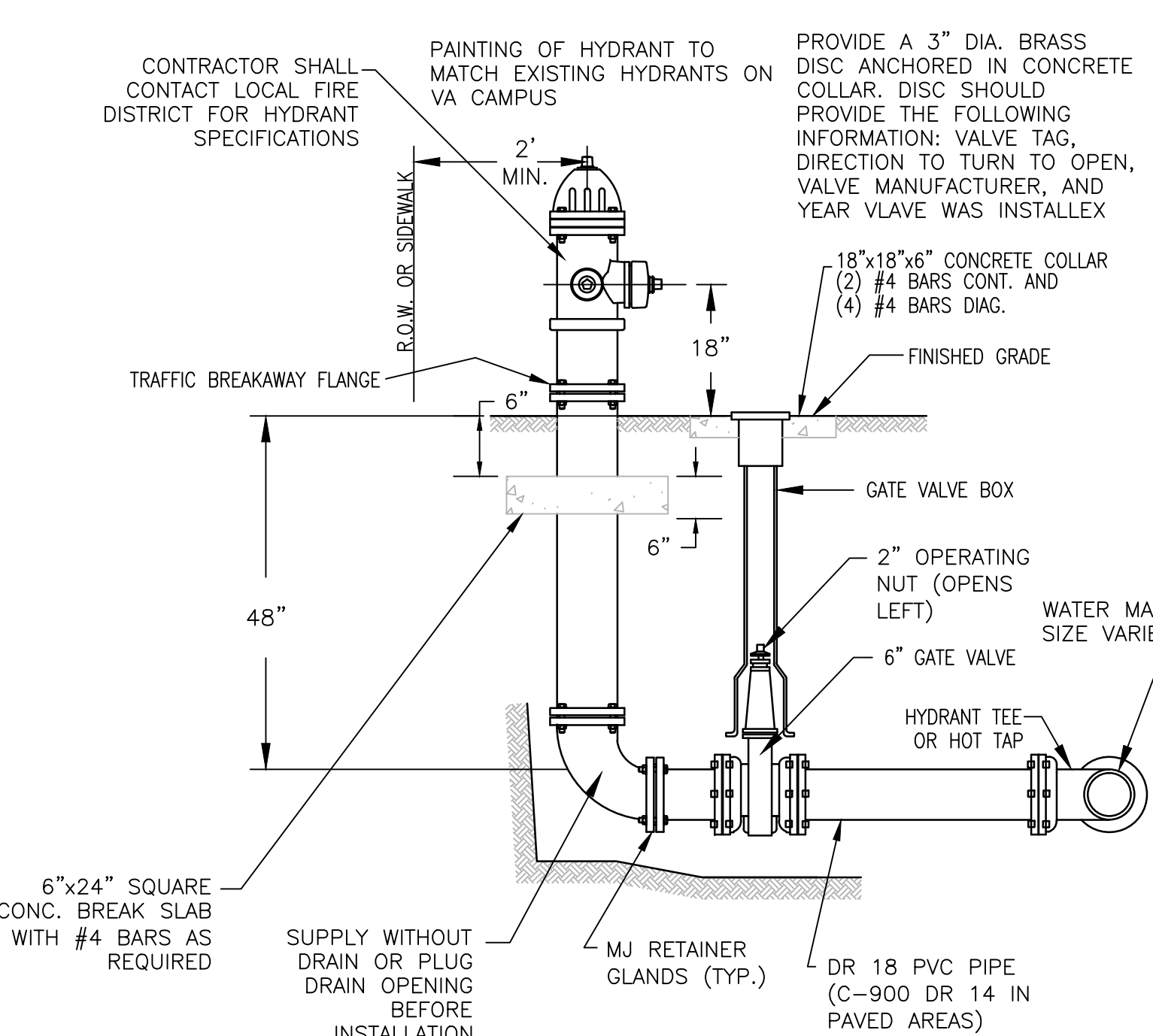
D
C107
TYPICAL VALVE SETTING DETAIL
SCALE: NONE



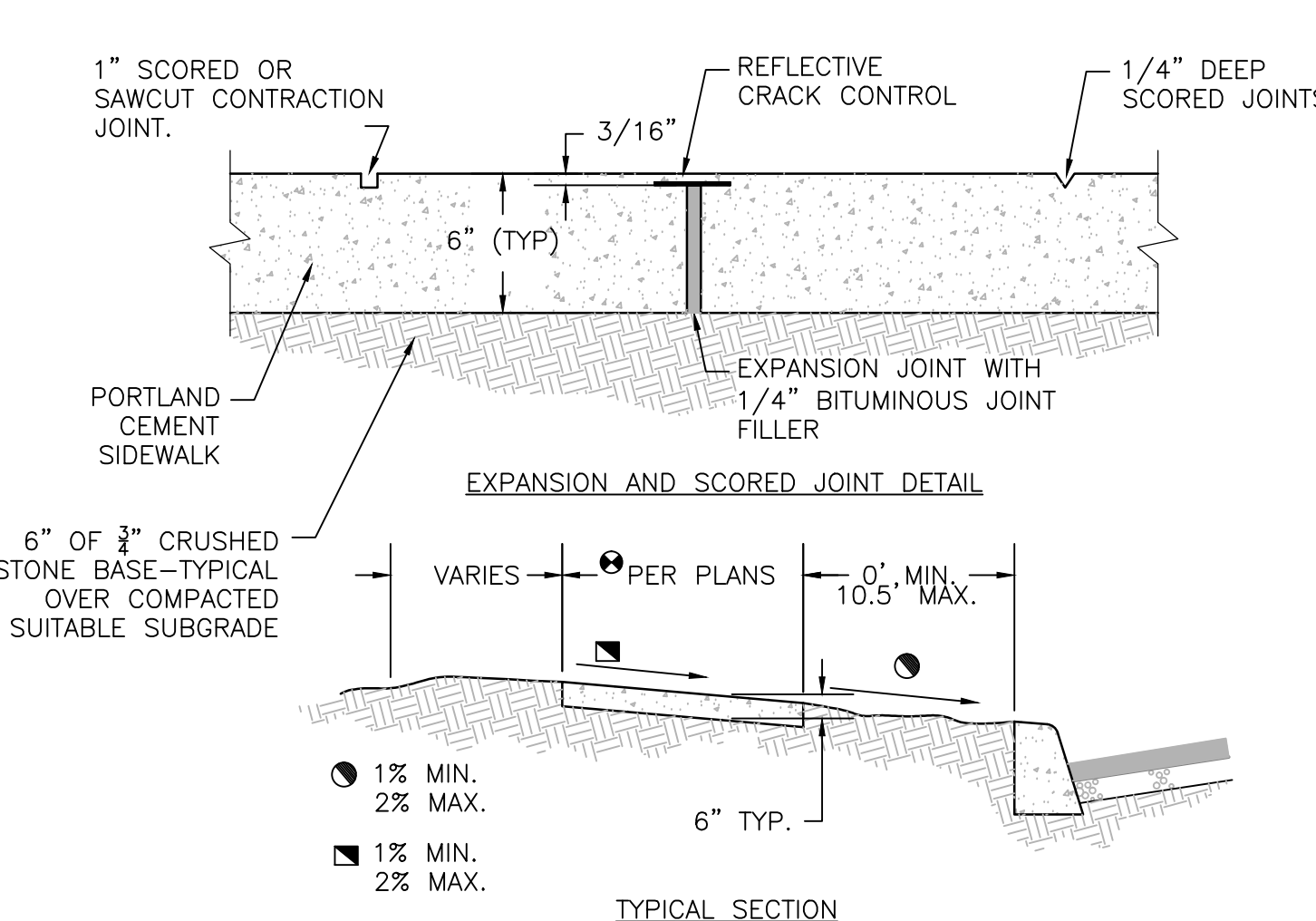
ALL LINE UTILITY SERVICES
12211 W FAIRVIEW AVE. STOP 4
MILWAUKEE, WI 53226
(414) 302-9750

Private Lines Inc.

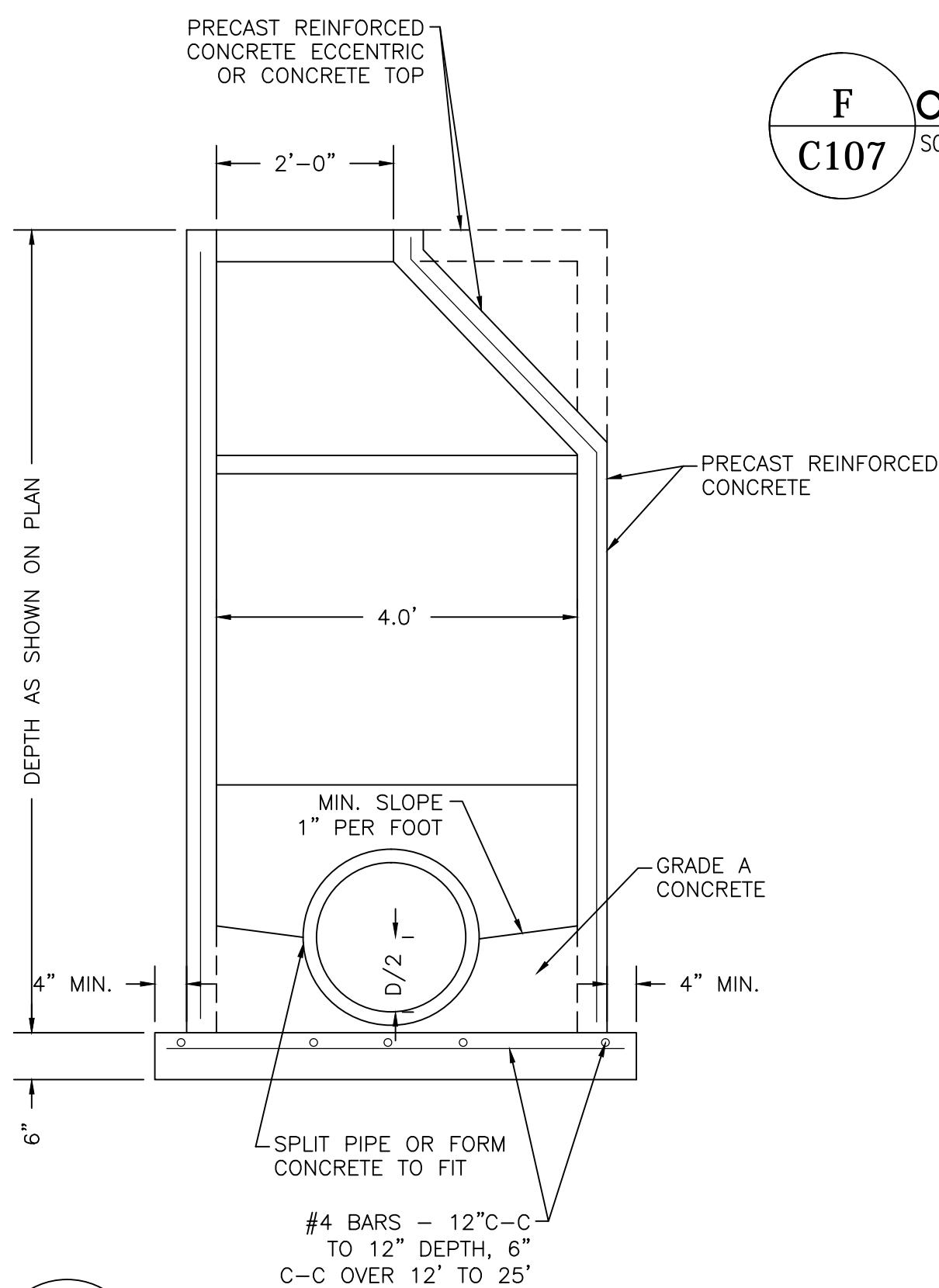
AAPRIVATE LINES INC.
E3221 STATE RD. 161
IOLA, WI 54945
(888) 246-0220



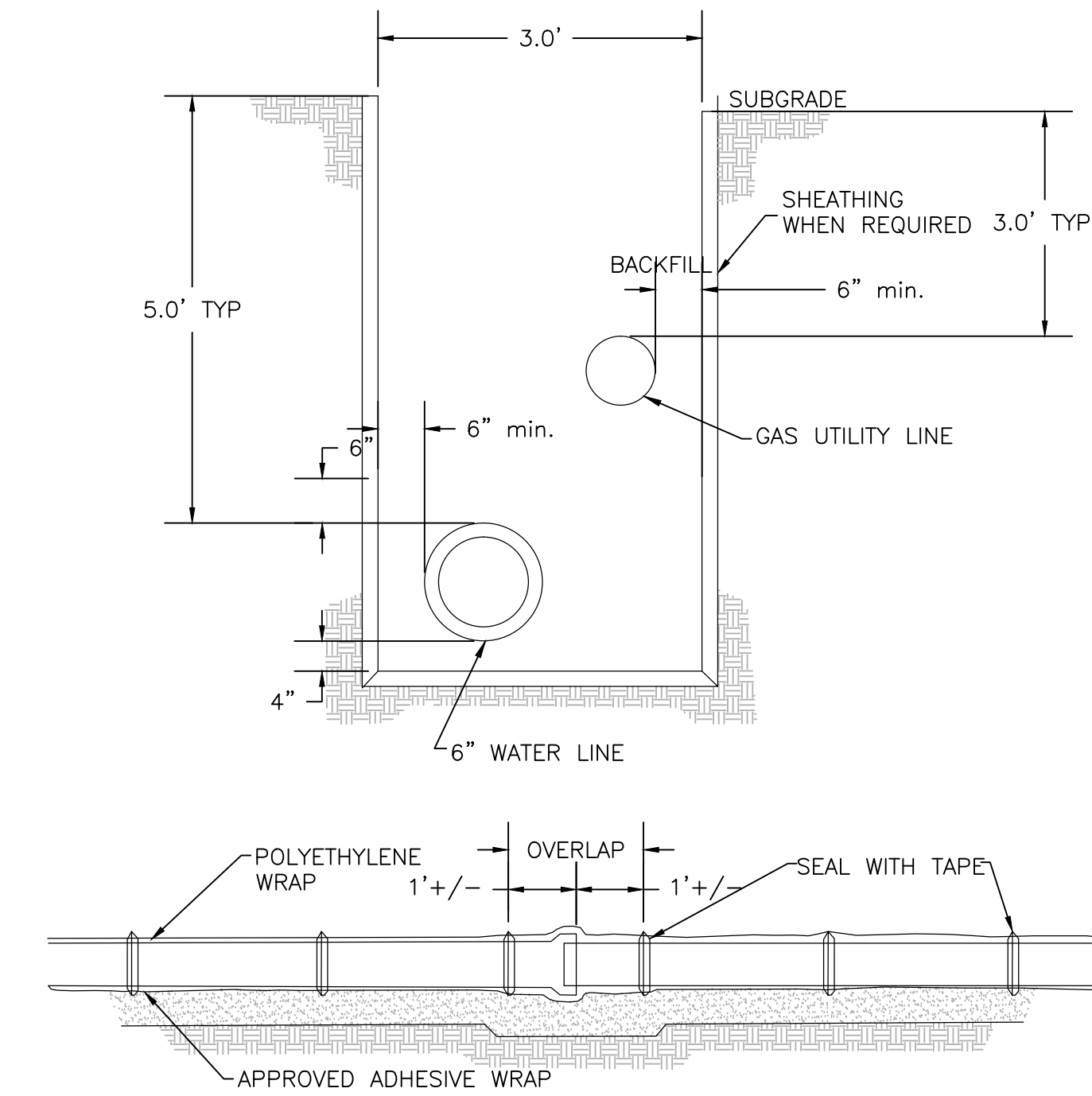
E
C107
TYPICAL HYDRANT DETAIL
SCALE: NONE



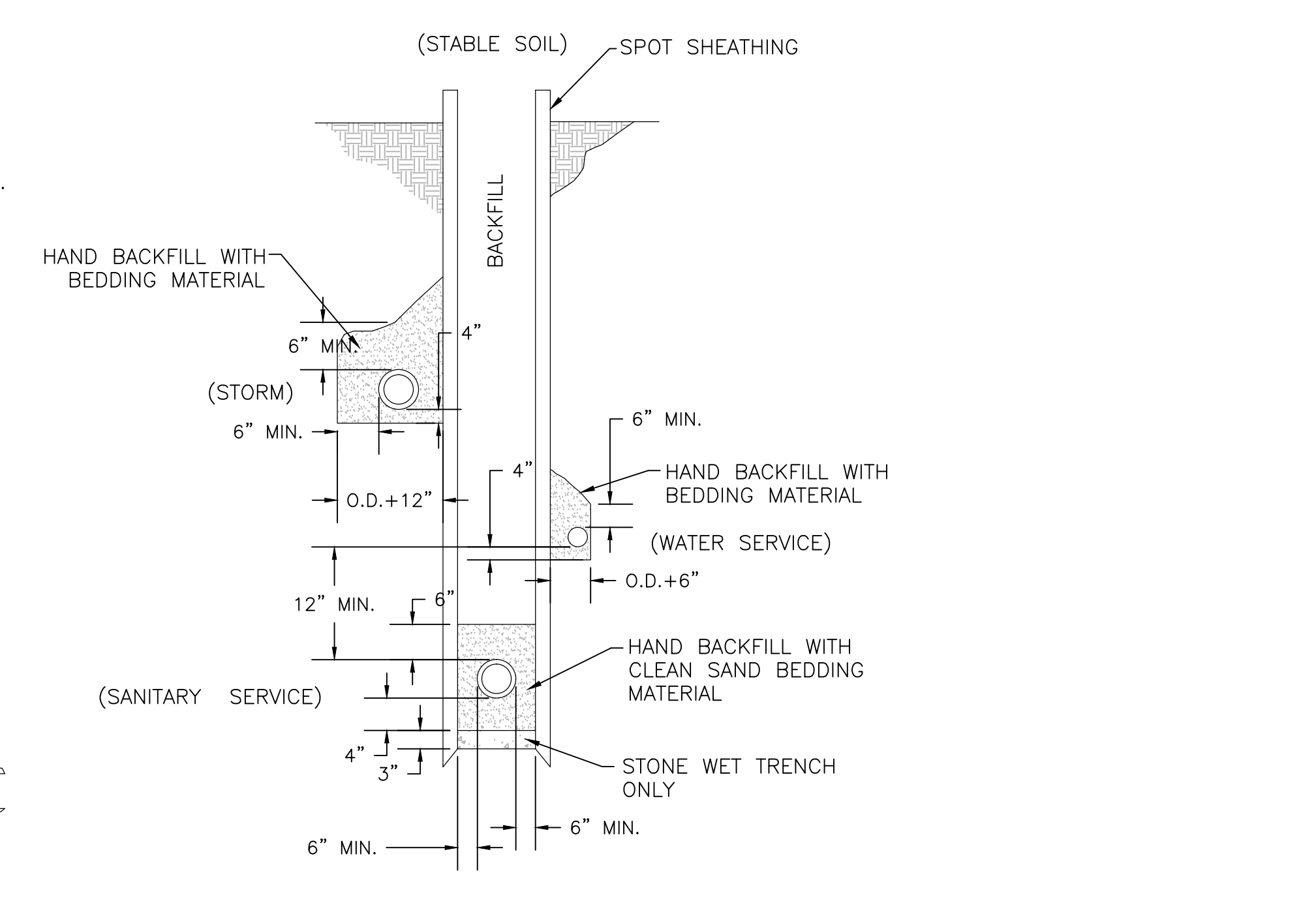
F
C107
CONCRETE SIDEWALK
SCALE: NONE



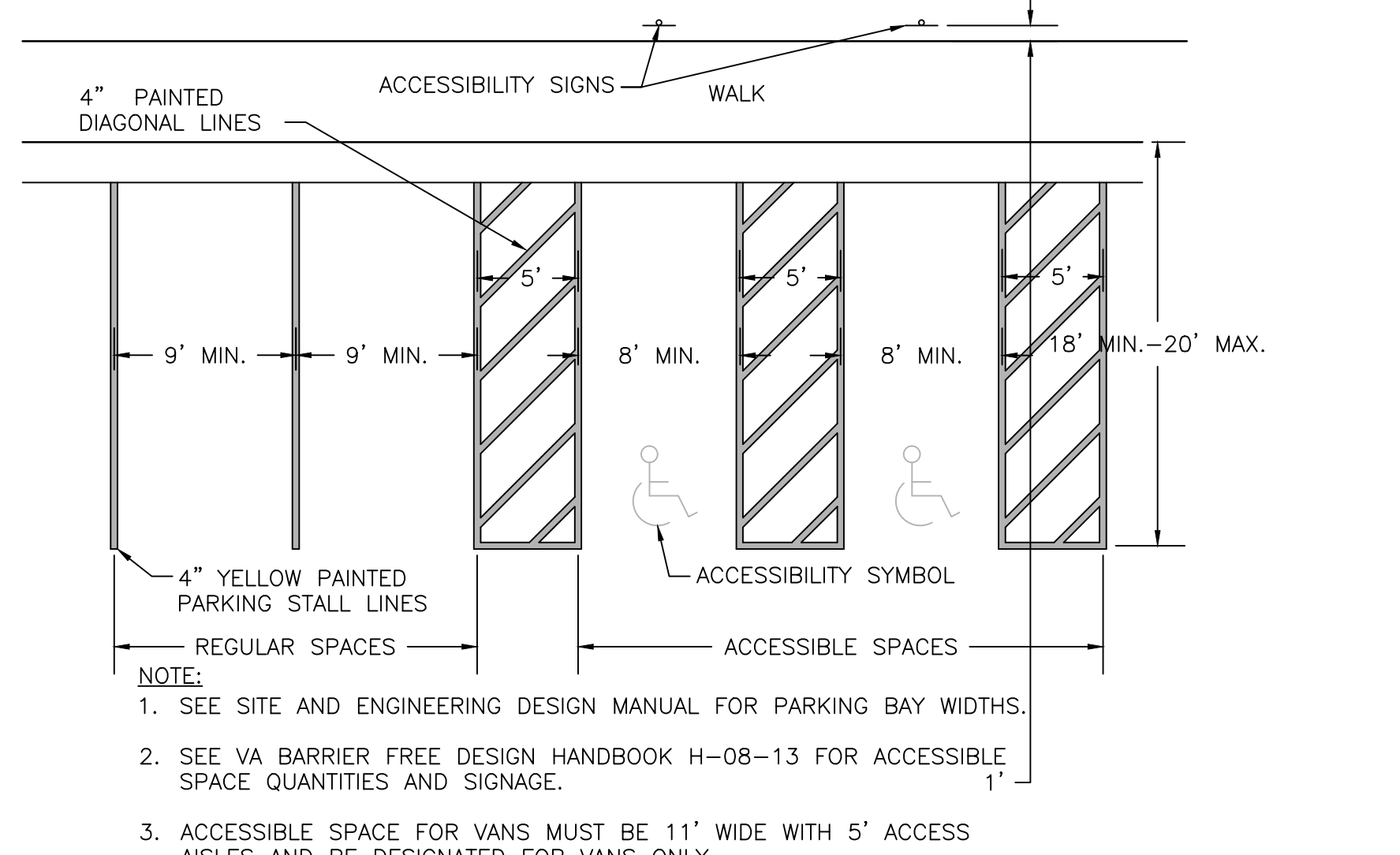
S
C107
PRECAST REINFORCED SANITARY MANHOLE TYPE 1
SCALE: NTS



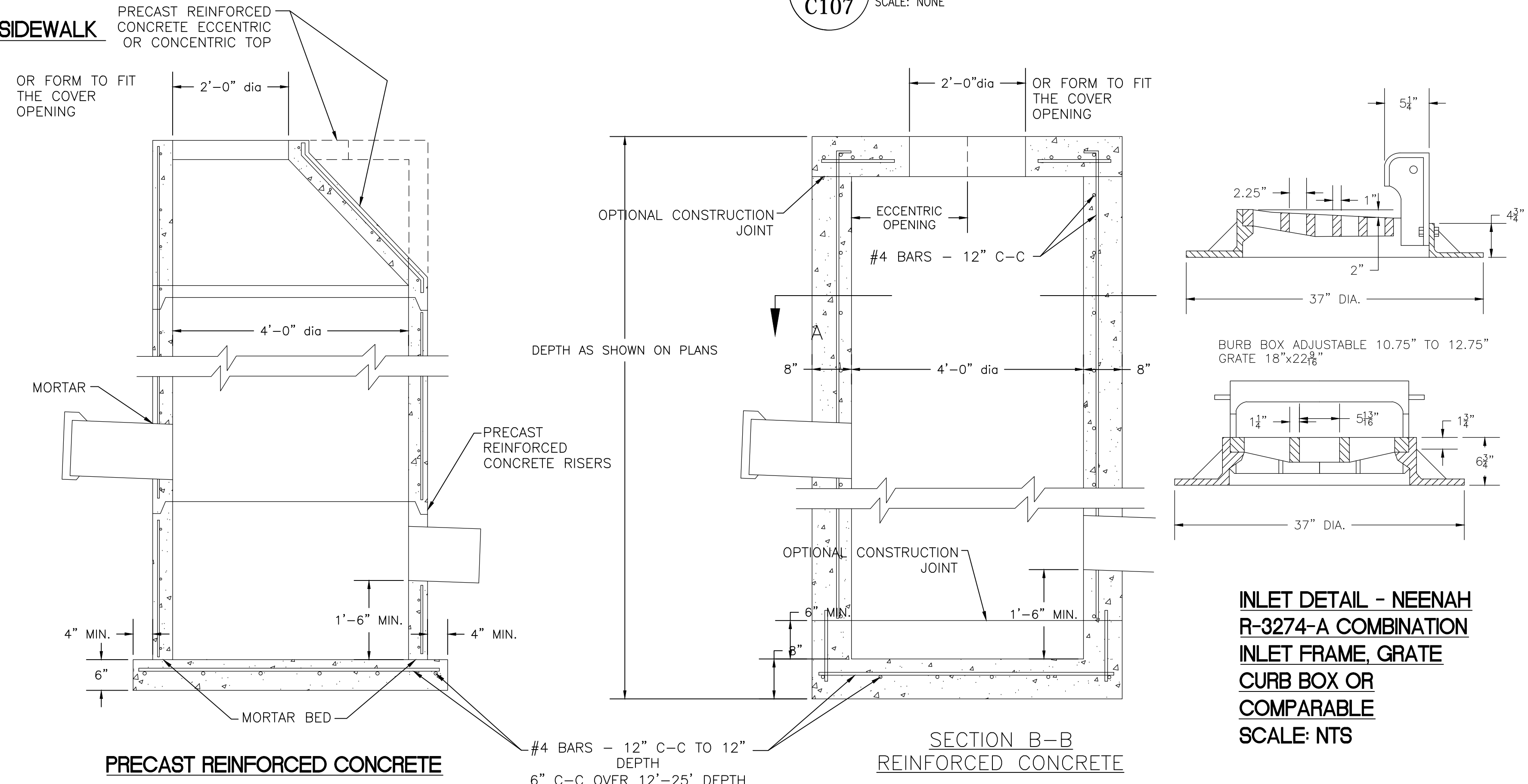
G
C107
STANDARD WATER MAIN/NATURAL GAS TRENCH SECTION



H
C107
STANDARD SECTION FOR BUILDING SEWER AND WATER SERVICES

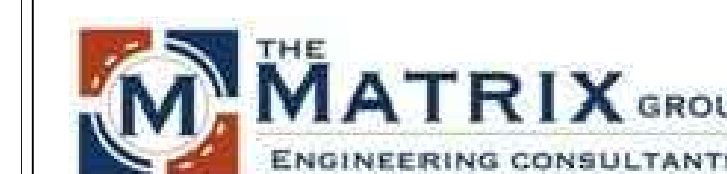


I
C107
PARKING STALL LAYOUT
SCALE: NONE



J
C107
INLET DETAIL - NEENAH R-3274-A COMBINATION INLET FRAME, GRATE CURB BOX OR COMPARABLE
SCALE: NTS

CONSULTANTS:



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www.damonfarber.com

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MILWAUKEE, WI
303 N. MAYFAIR RD.
SUITE 100
MILWAUKEE, WI 53226
PHONE: (414) 258-6004
FAX: (414) 258-6154

J
C107
CATCH BASINS, TYPE 1
SCALE: NONE

Drawing Title
DETAILS
Approved: Project Director

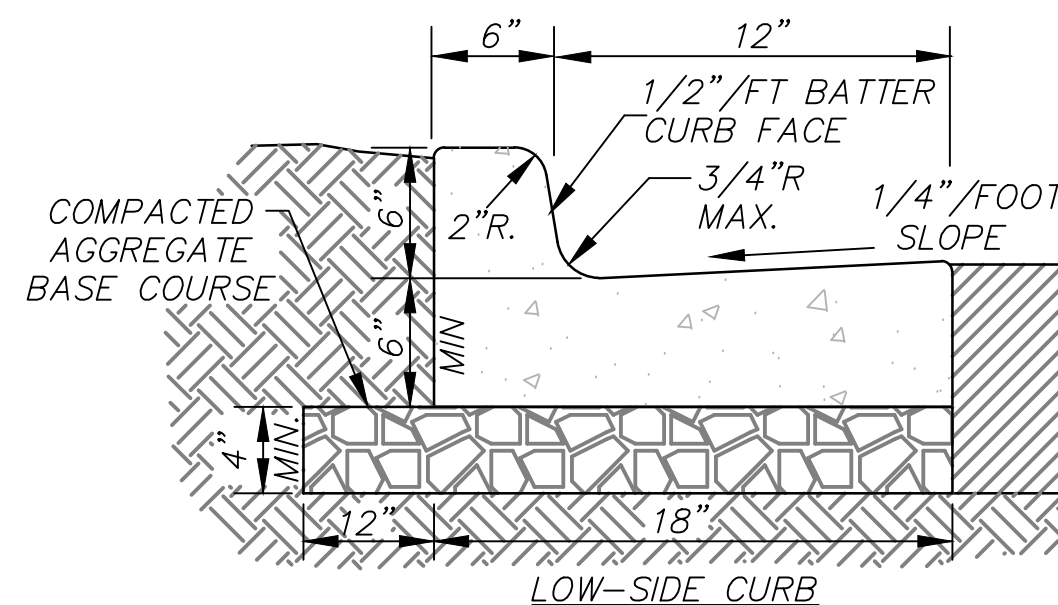
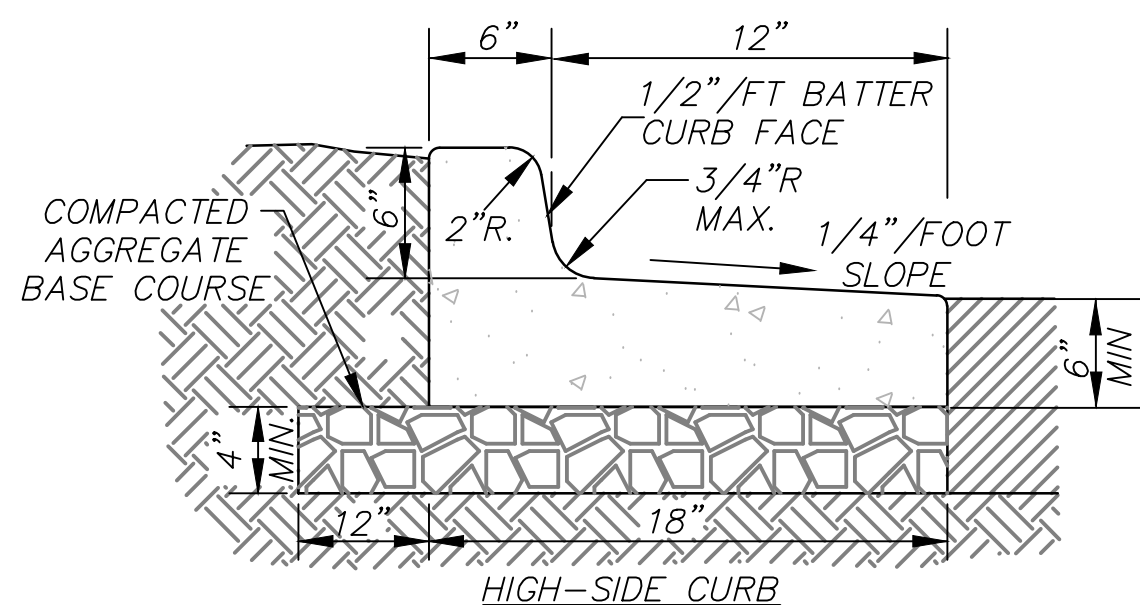
Project Title
Provide Fisher House Infrastructure
Location
VA Medical Center, Milwaukee, WI
Date
22 April 2013
Checked By:
DJC
Drawn By:
NLB

Project Number
695-13-118
Building Number
-
Drawing Number
C107

Office of
Facilities
Management
Department of
Veterans Affairs

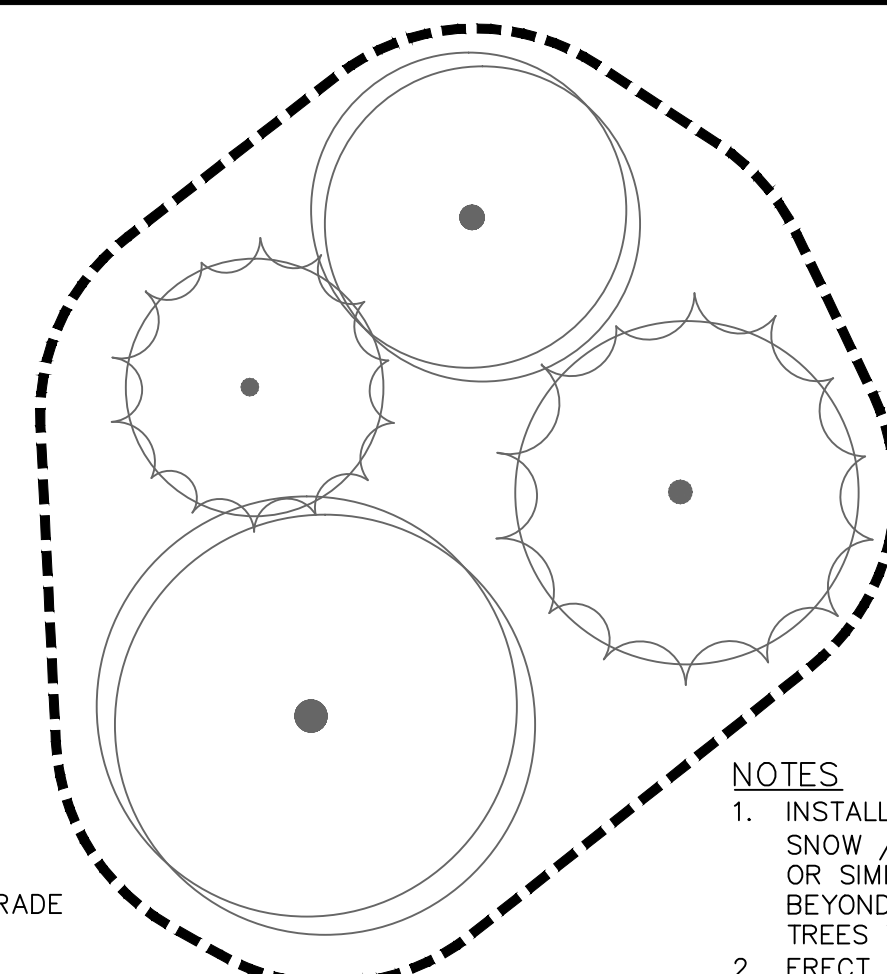
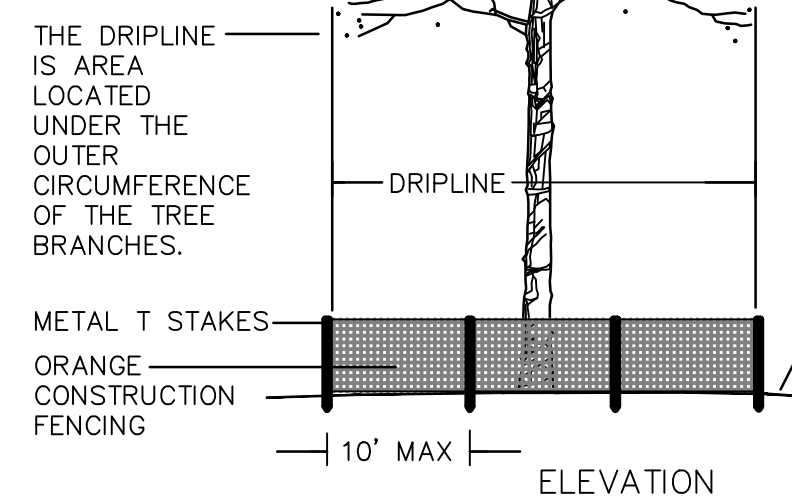
FINAL CONSTRUCTION DOCUMENTS

three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot



- NOTES:
- 3500 PSI CONCRETE SHALL BE USED IN CONSTRUCTION OF THE CURB & GUTTER.
 - THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE SLOPE OF THE GUTTER PAN.
 - FOR DEPRESSED CURB HEAD SLOPE, USE THE SAME SLOPE AS ADJACENT SIDEWALK.
 - THE BOTTOM OF THE CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDE MINIMUM 6" GUTTER THICKNESS MAINTAINED. TRANSVERSE CONTRACTION JOINTS SHALL BE CUT OR SAWED AT MAXIMUM 20 FOOT INTERVALS.
 - 1/2" PREFORMED EXPANSION JOINT FILLER SHALL BE PLACED TRANSVERSELY IN THE CURB ABUTTING EXISTING CURB AND SIDEWALK, WALLS OR BUILDINGS, AND AT INTERVALS NOT TO EXCEED 300 FEET, WITH PREFERRED LOCATIONS BEING AT RADIUS POINTS OR ANGLE POINTS.

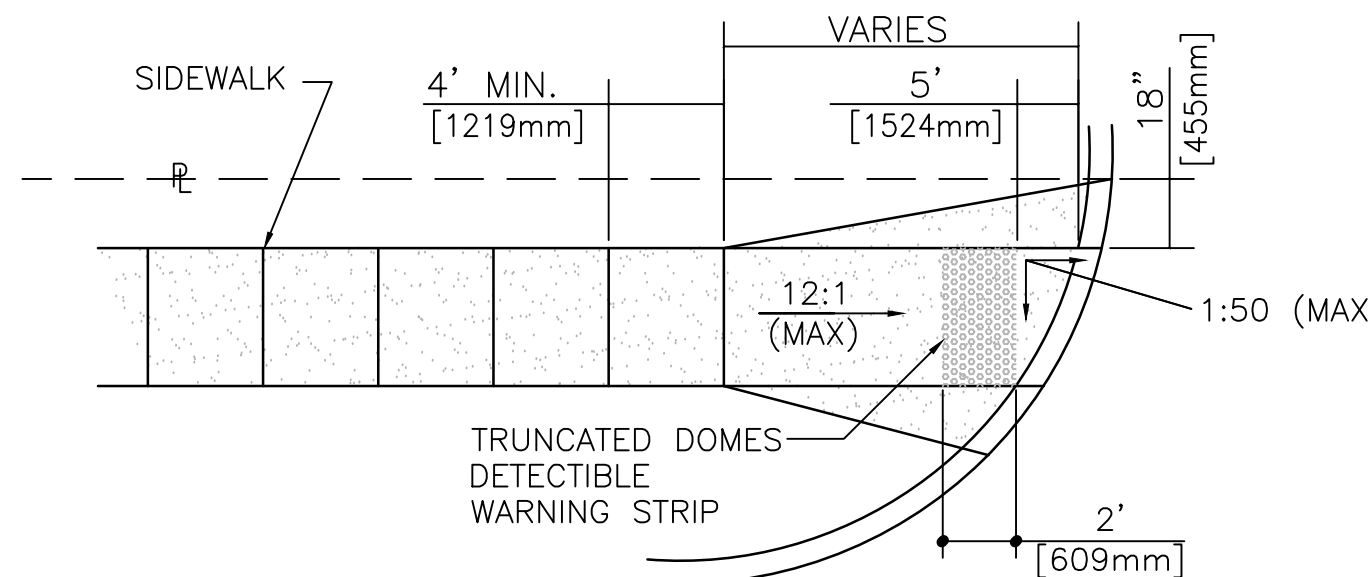
K CONCRETE CURB AND GUTTER DETAIL
C107.1 SCALE: NONE



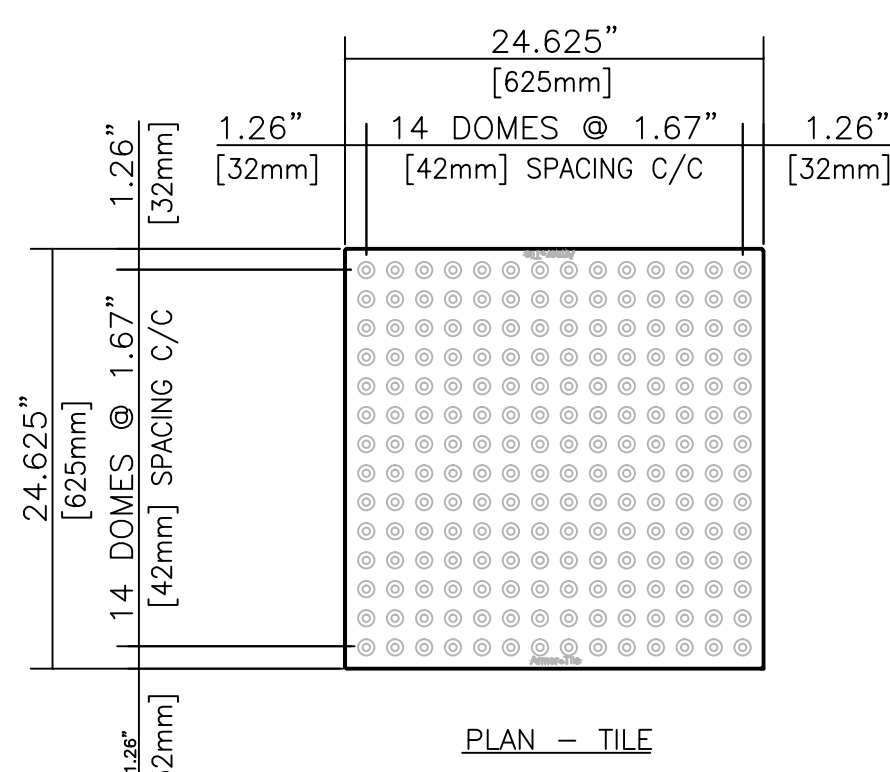
- NOTES:
- INSTALL 4' HIGH ORANGE VINYL SNOW / CONSTRUCTION FENCING OR SIMILAR FENCING AT OR BEYOND THE DRIPLINE OF ALL TREES TO SAVE.
 - ERECT FENCE WITH 5' METAL T-STAKES AT LEAST EVERY 10'. THE FENCING SHALL BE IN PLACE BEFORE CONSTRUCTION ACTIVITY BEGINS AND REMAIN UNTIL ALL EXTERIOR WORK HAS BEEN COMPLETED.
 - NO CONSTRUCTION ACTIVITY SHALL TAKE PLACE NOR SHALL ANY EQUIPMENT BE STORED INSIDE OF THE FENCING.

NOTE: TO THE GREATEST EXTENT POSSIBLE, CONTRACTORS SHALL BE RESPONSIBLE FOR EXERCISING GREAT CARE TO RETAIN AND PROTECT ALL EXISTING TREES.

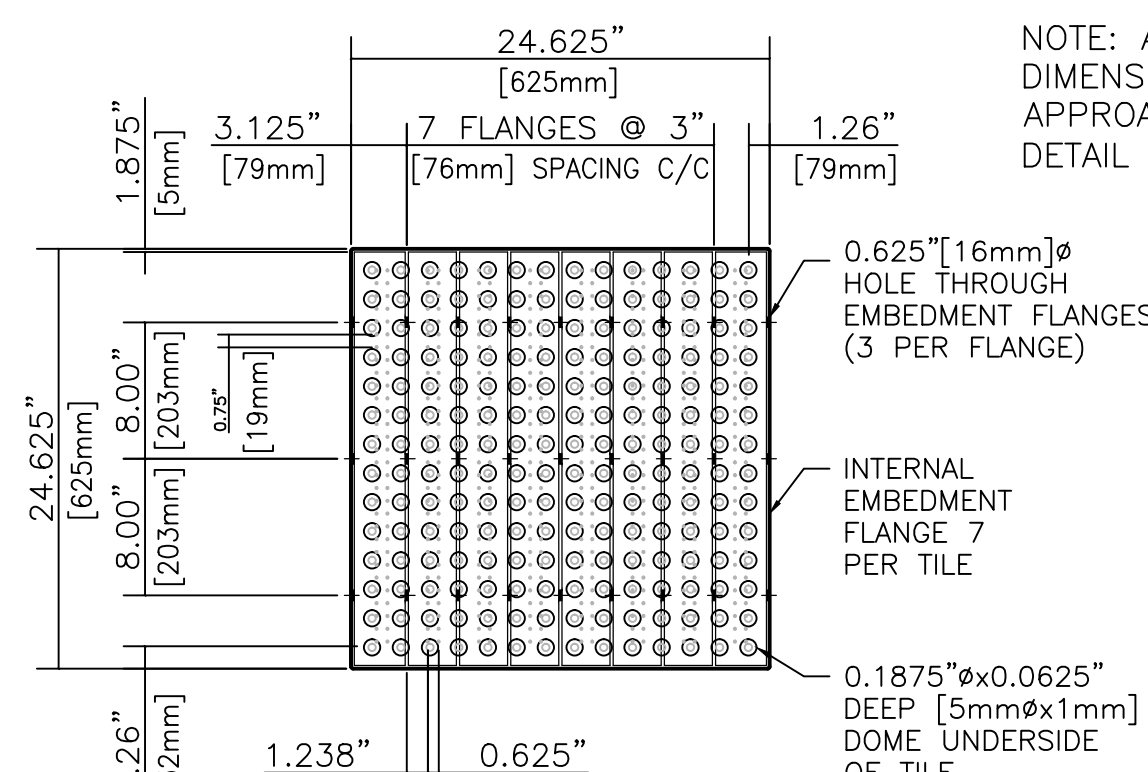
N TREE PROTECTION FENCING DETAIL
C107.1 SCALE: NONE



J CURB ACCESS RAMP
C107.1 SCALE: NONE

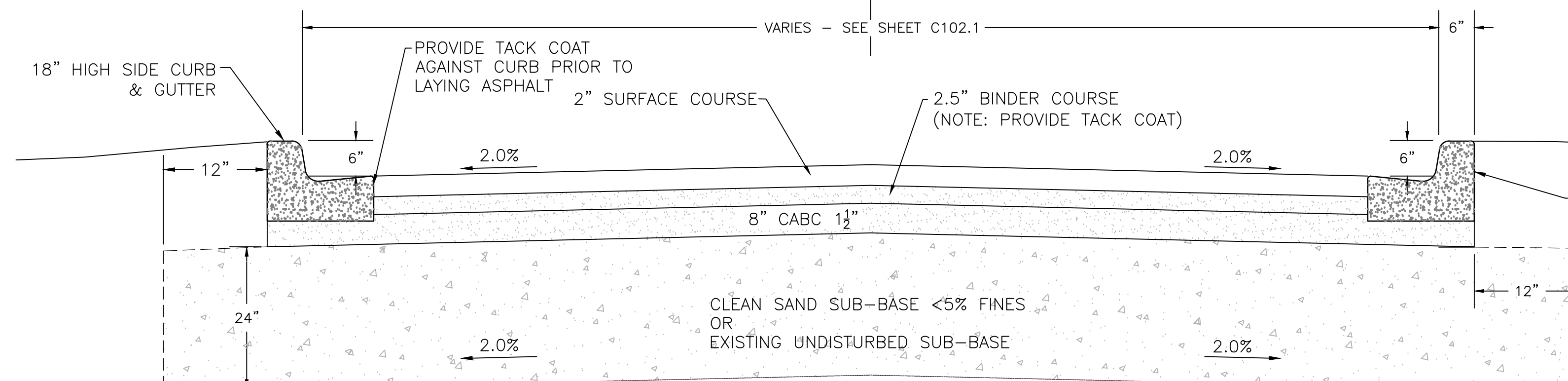


I DETECTABLE WARNING DETAIL
SCALE NTS



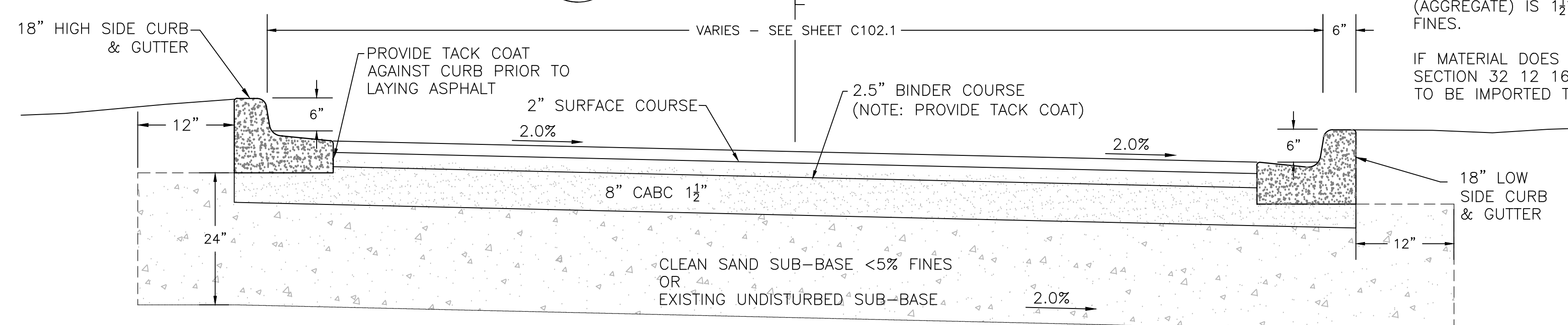
NOTE: ALTER WARNING STRIP DIMENSIONS TO MATCH SIDEWALK APPROACH LENGTHS AS SHOWN ON DETAIL J/C107.1

I DETECTABLE WARNING DETAIL
SCALE NTS

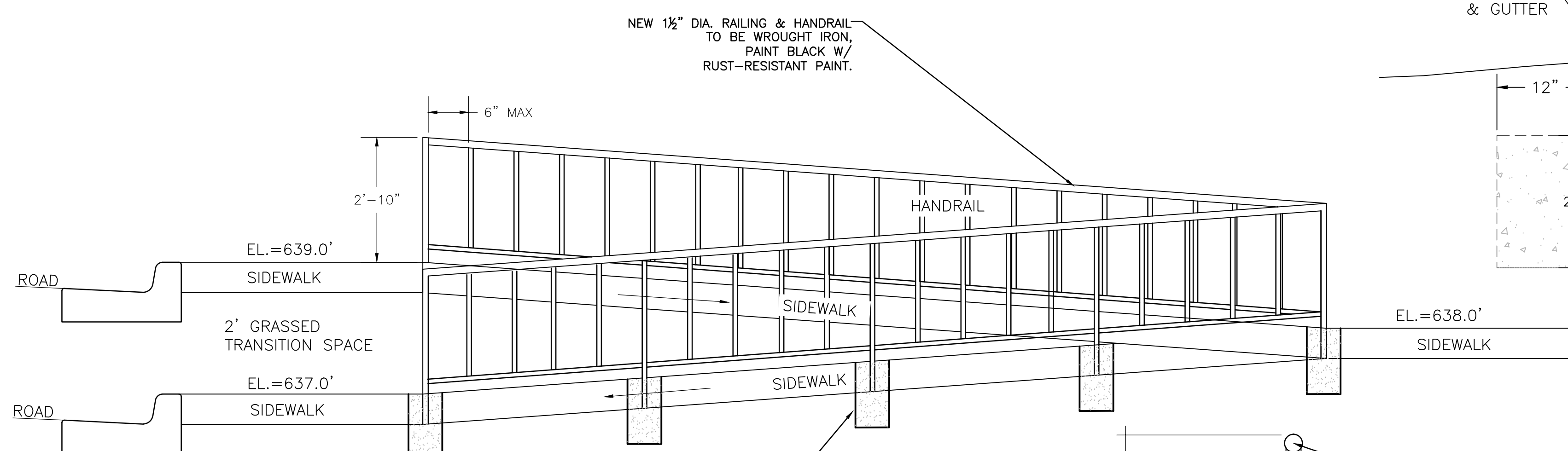


L PROPOSED ROAD TYPICAL CROSS SECTION
C107.1 SCALE NTS

NOTE: CONTRACTOR MAY RE-USE EXISTING ROAD SUB-BASE IF MAXIMUM SIZE OF MATERIAL (AGGREGATE) IS 1 1/2" AND IT IS "CLEAN" <5% FINES. IF MATERIAL DOES NOT MEET SPECIFICATION SECTION 32 12 16 SUB-BASE WILL NEED TO BE IMPORTED TO SITE.

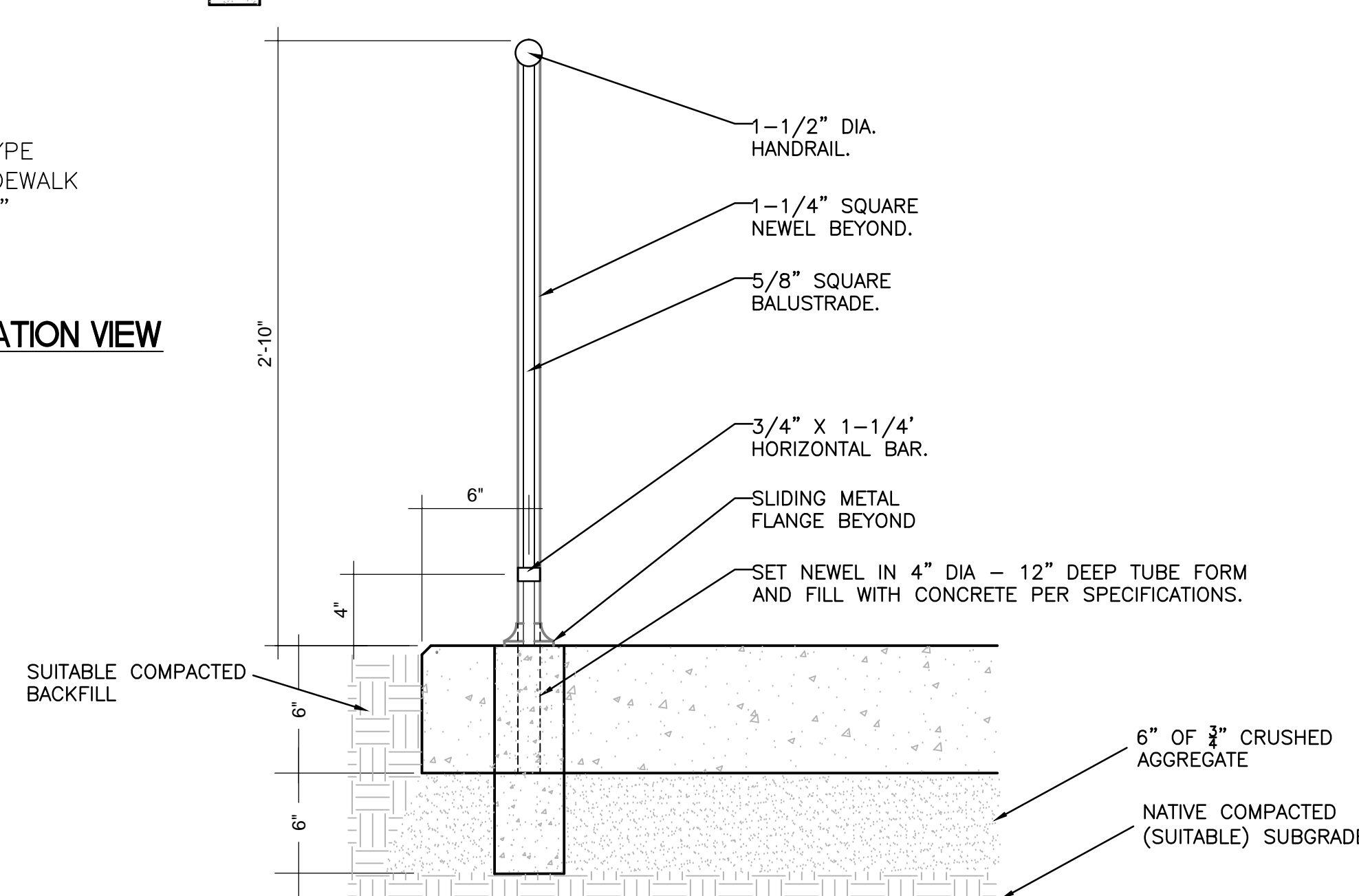


M PROPOSED ROAD TYPICAL CROSS SECTION
C107.1 SCALE NTS



P SWITCHBACK ELEVATION VIEW
C107.1 SCALE NTS

POSTS TO BE BURIED EVERY 4' O.C. IN 4" DIA - 12" SONOTUBE (OR COMPARABLE TUBE TYPE FORM). SET TOP OF FORM FLUSH WITH CONCRETE SIDEWALK SURFACE AND INTEGRATE FINISH TO CREATE "SEAMLESS" SURFACE.



Q GRADE CLEANOUT DETAIL
C107.1 SCALE NTS

SWITCHBACK HANDRAIL DETAIL
SCALE NTS



ALL LINE UTILITY SERVICES
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Dept. of Veterans Affairs
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5000 W. National Avenue
Milwaukee, WI



CONSULTANTS:



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Drawing Title
DETAILS
Approved: Project Director

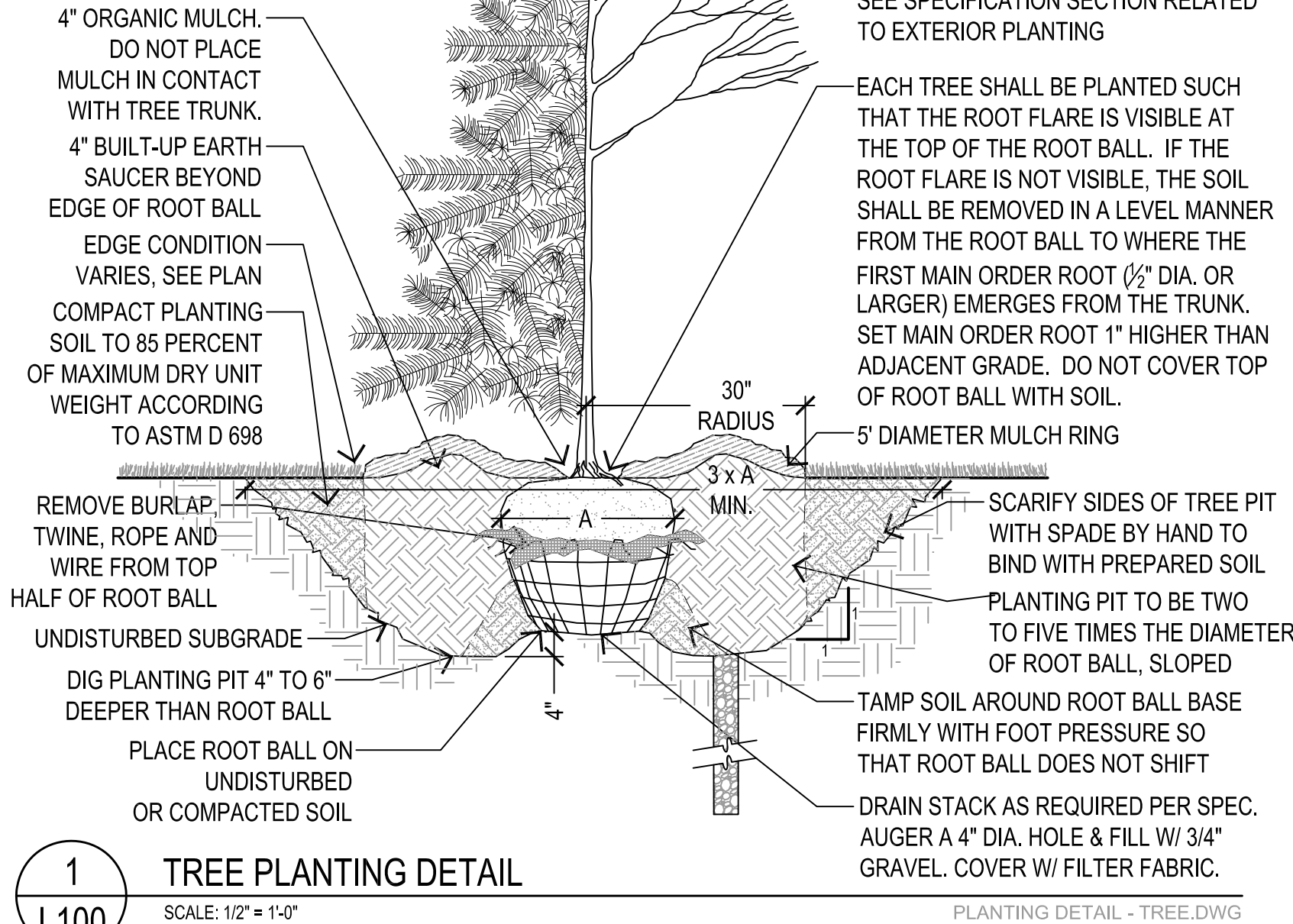
Project Title
Provide Fisher House Infrastructure
Location
VA Medical Center, Milwaukee, WI
Date
22 April 2013
Checked By:
DJC
Drawn By:
NLB

Project Number
695-13-118
Building Number
Drawing Number
C107.1

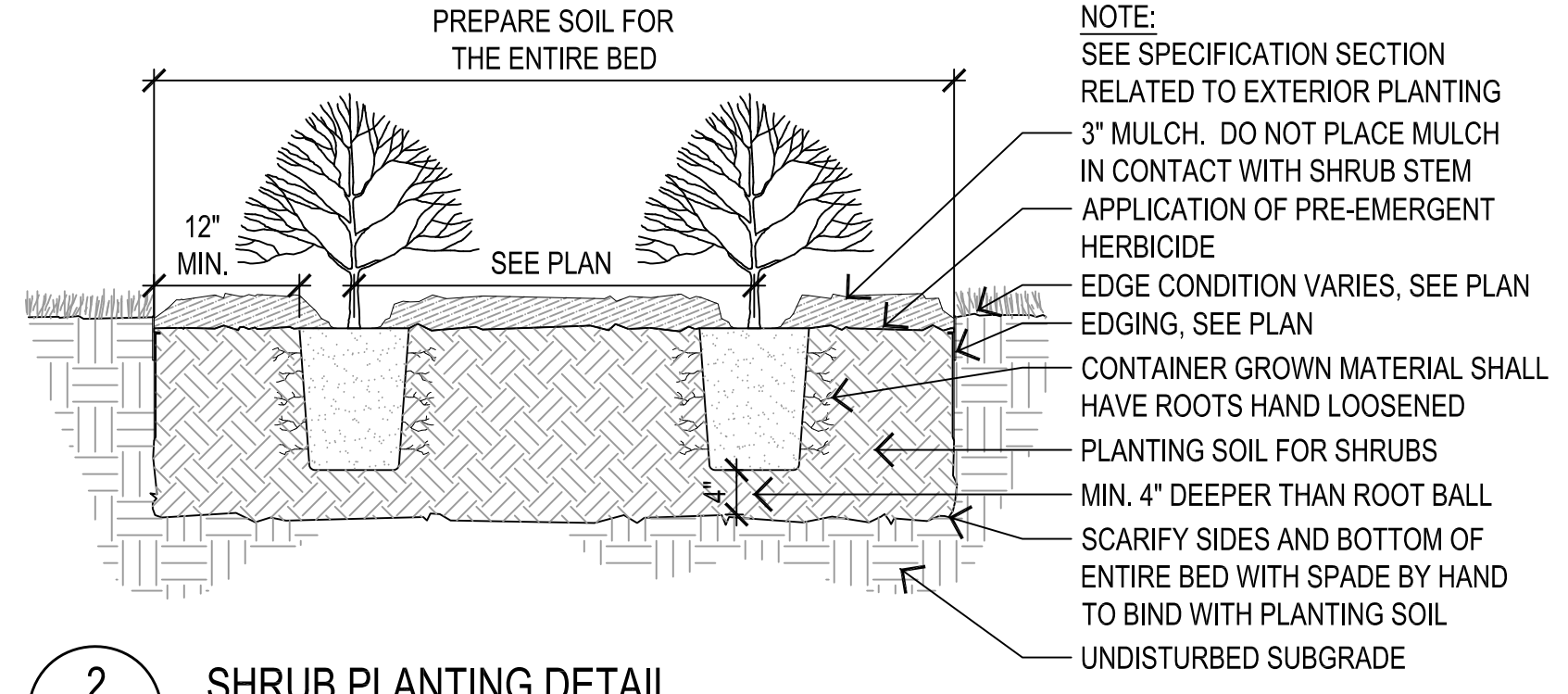
Office of
Facilities
Management



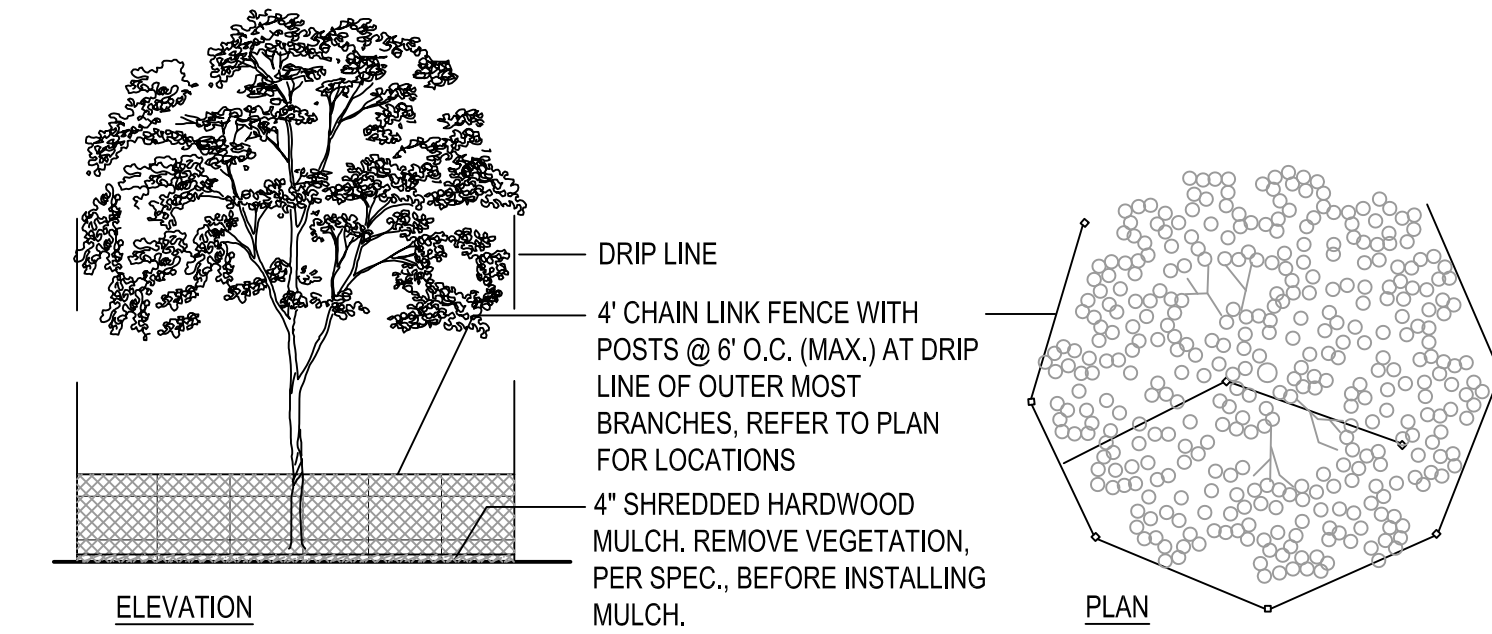
FINAL CONSTRUCTION DOCUMENTS



1 TREE PLANTING DETAIL
SCALE: 1/2" = 1'-0"
PLANTING DETAIL - TREE.DWG



2 SHRUB PLANTING DETAIL
SCALE: 3/4" = 1'-0"
PLANTING DETAIL - SHRUB.DWG



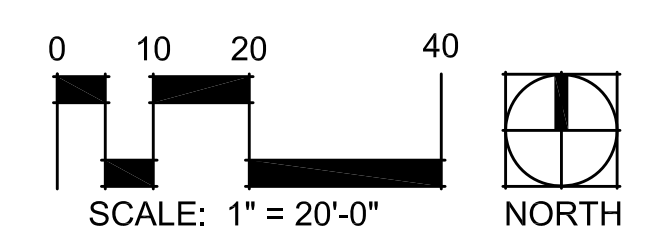
3 TREE PROTECTION
SCALE: 1/8" = 1'-0"
TREE PROTECTION2.DWG

4 SITE LANDSCAPE PLAN AND TREE PROTECTION PLAN
SCALE: 1" = 20'-0"

NOTES:

- Landscape Contractor to Install Tree protection as shown on this plan. Once installed, Fisher House Contractor may alter the layout based on Construction Activities under the direct supervision of VA COR and Landscape Architect (within this contract).
- All plant materials to be field staked and approved by landscape architect prior to installation.
- In the case of conflicts or discrepancies within or among the Contract Drawings, the better quality, more stringent requirements or greater quantity of work, as determined by the Government, shall be provided.

PLANTING SCHEDULE				
Qty	Botanical Name	Common Name	Size	Container
TREES				
1	Acer nigrum	Black Maple	2.5"	B&B
1	Carya ovata	Shagbark Hickory	2.5"	B&B
4	Malus 'profusion'	Profusion Crabapple	2.5"	B&B
3	Pinus sylvestris	Scotch Pine	2.5"	B&B
4	Quercus macrocarpa	Bur Oak	2.5"	B&B
SHRUBS				
21	Syringa Vulgaris	Common Purple Lilac	#7	pot



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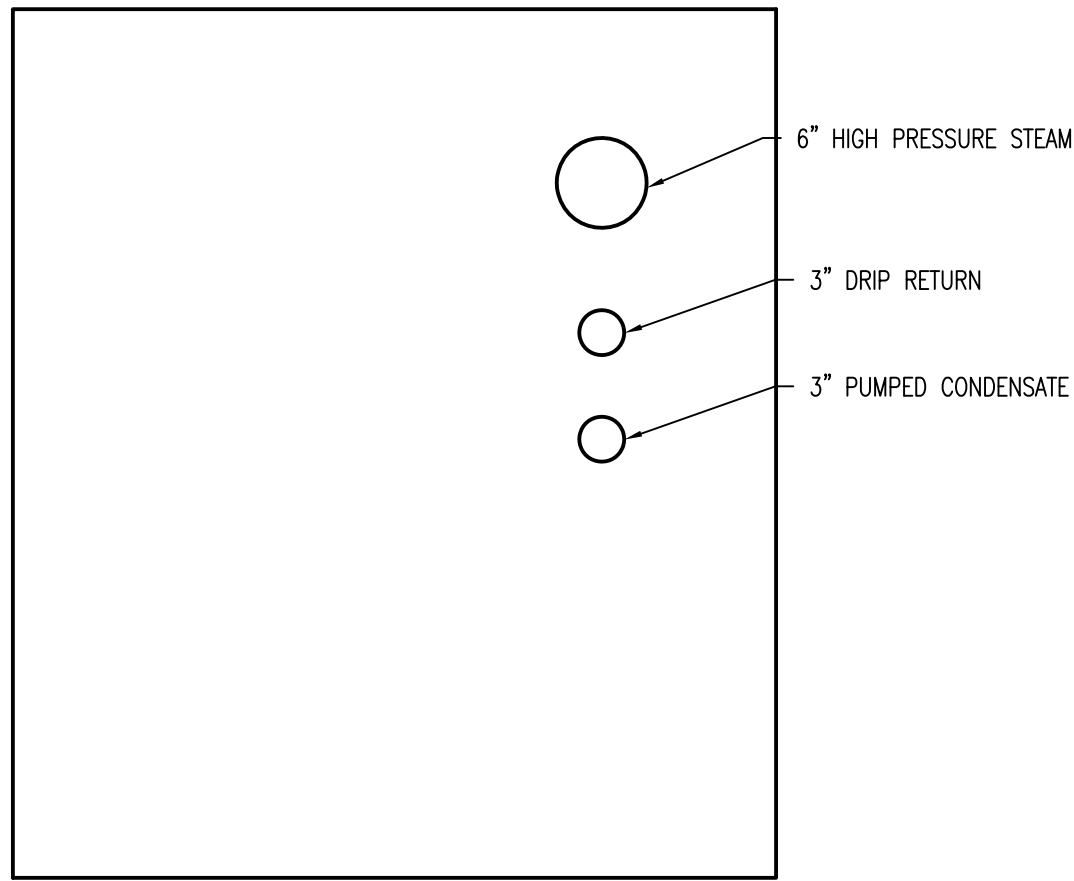
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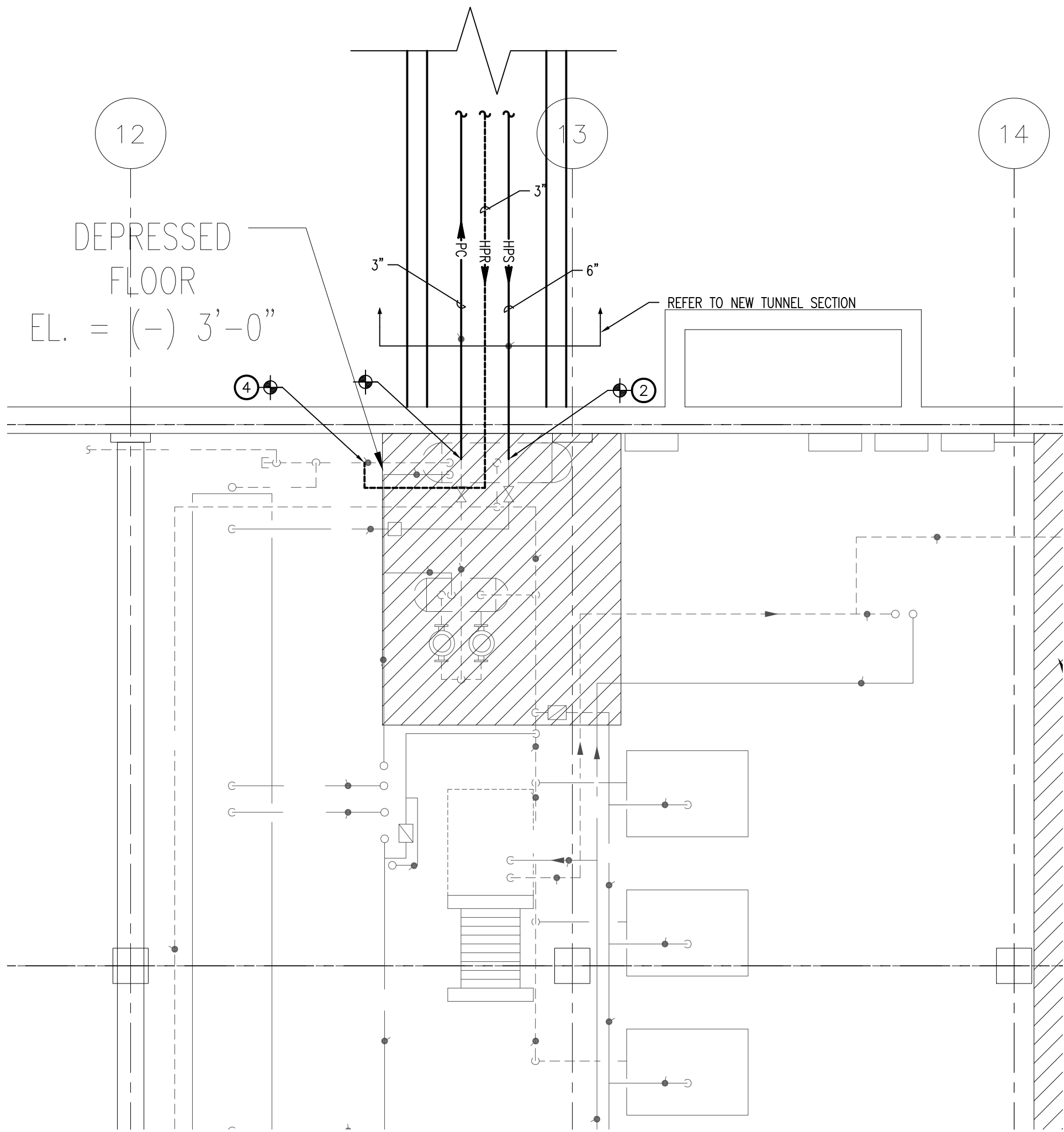
Drawing Title	Project Title	Project Number	Office of Facilities Management
LANDSCAPE PLAN	Provide Fisher House Infrastructure	695-13-118	
Approved: Project Director	Location VA Medical Center, Milwaukee, WI	Building Number -	Drawing Number L100
	Date 19 April 2013	Checked By: JG	Drawn By: JG

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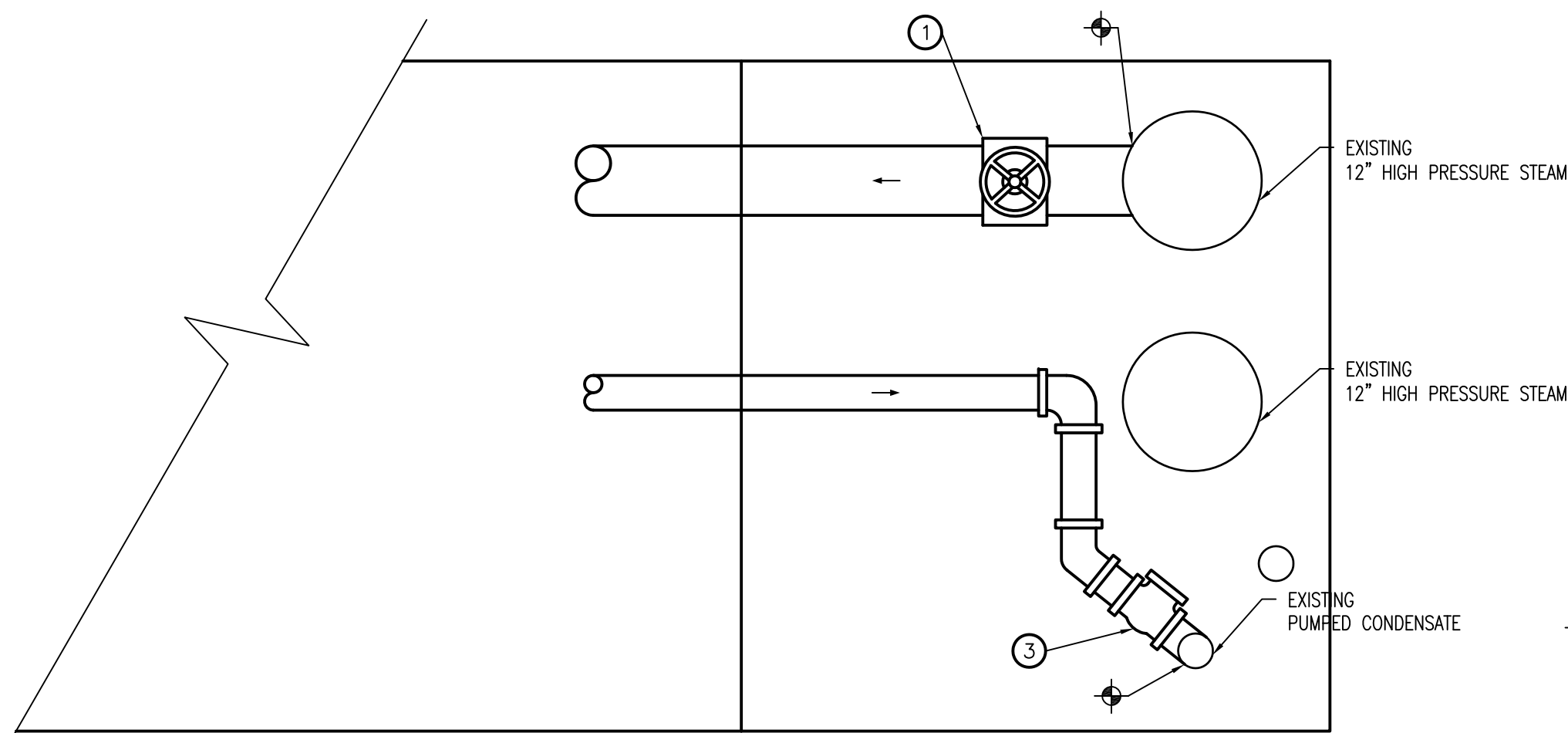
A
B
C
D
E
F



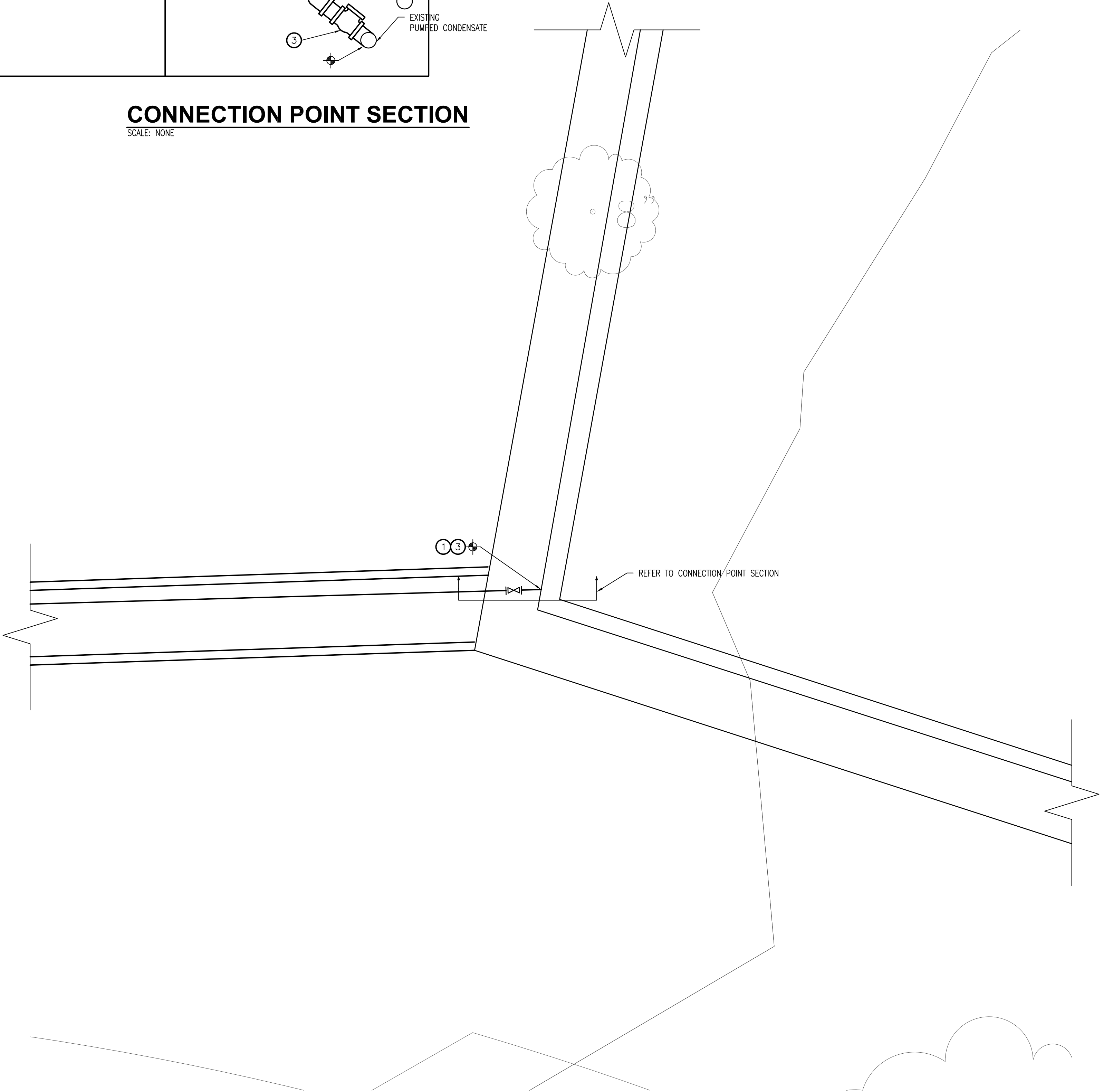
NEW TUNNEL SECTION
SCALE: NONE



BUILDING 102
SCALE: 1/4" = 1'-0"



CONNECTION POINT SECTION
SCALE: NONE



CONNECTION POINT
SCALE: 1/4" = 1'-0"

KEY NOTES

- 1 PROVIDE ISOLATION VALVE AT BRANCH CONNECTION.
- 2 PROVIDE DRIP TRAP AT THE END OF STEAM LINE IF ONE IS NOT ALREADY THERE. FIELD VERIFY WITH EXISTING CONDITIONS. REFER TO DETAIL 5 ON SHEET MS102.
- 3 PROVIDE CHECK VALVE IN PUMPED CONDENSATE BRANCH.
- 4 CONNECT NEW 3" HIGH PRESSURE STEAM DRIP CONDENSATE TO EXISTING 3" HPR DRIP CONDENSATE PRIOR TO FLASH TANK.

PIPING SYMBOLS

- HPS HIGH PRESSURE STEAM (60 PSIG AND ABOVE)
- HPR HIGH PRESSURE STEAM CONDENSATE RETURN
- PC CONDENSATE PUMP DISCHARGE

VALVE SYMBOLS

- Gate Valve - Threaded/Flanged
- Check Valve

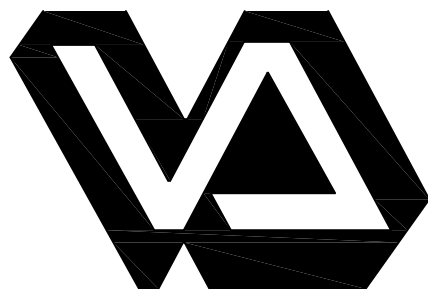


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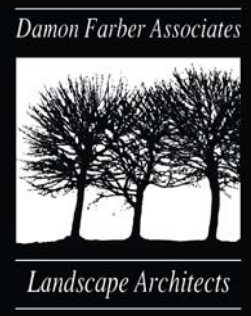
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Revisions:	Date



Dept. of Veterans Affairs
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PHONE: (414) 258-8004
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Drawing Title
**ENLARGED
MECHANICAL PLANS**

Approved: Project Director

Project Title
Provide Fisher House Infrastructure

Location
VA Medical Center, Milwaukee, WI

Date
22 April 2013

Checked By:
RGE

Drawn By:
JJP


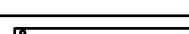



Project Number
695-13-118

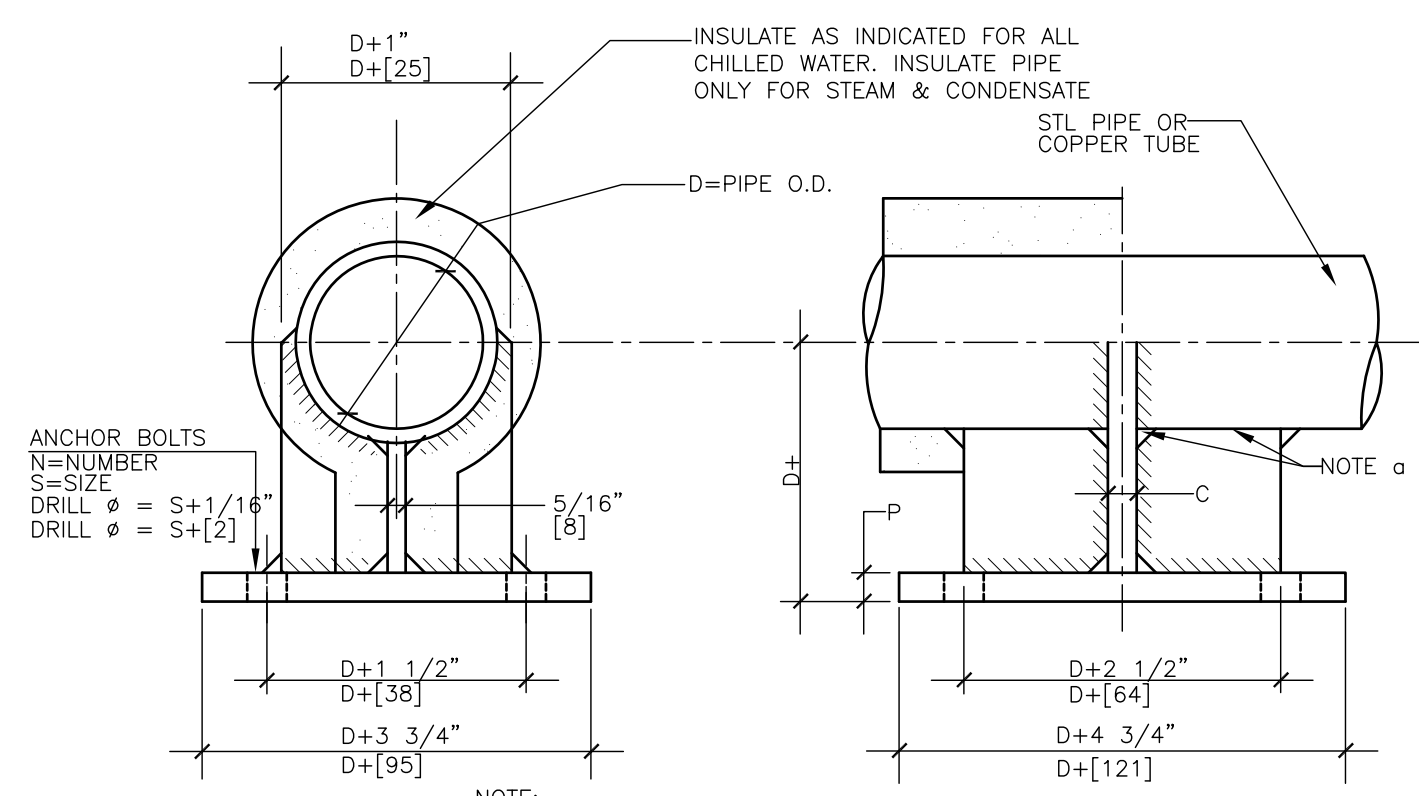
Building Number
-

Drawing Number
MS101








Office of
Facilities
Management

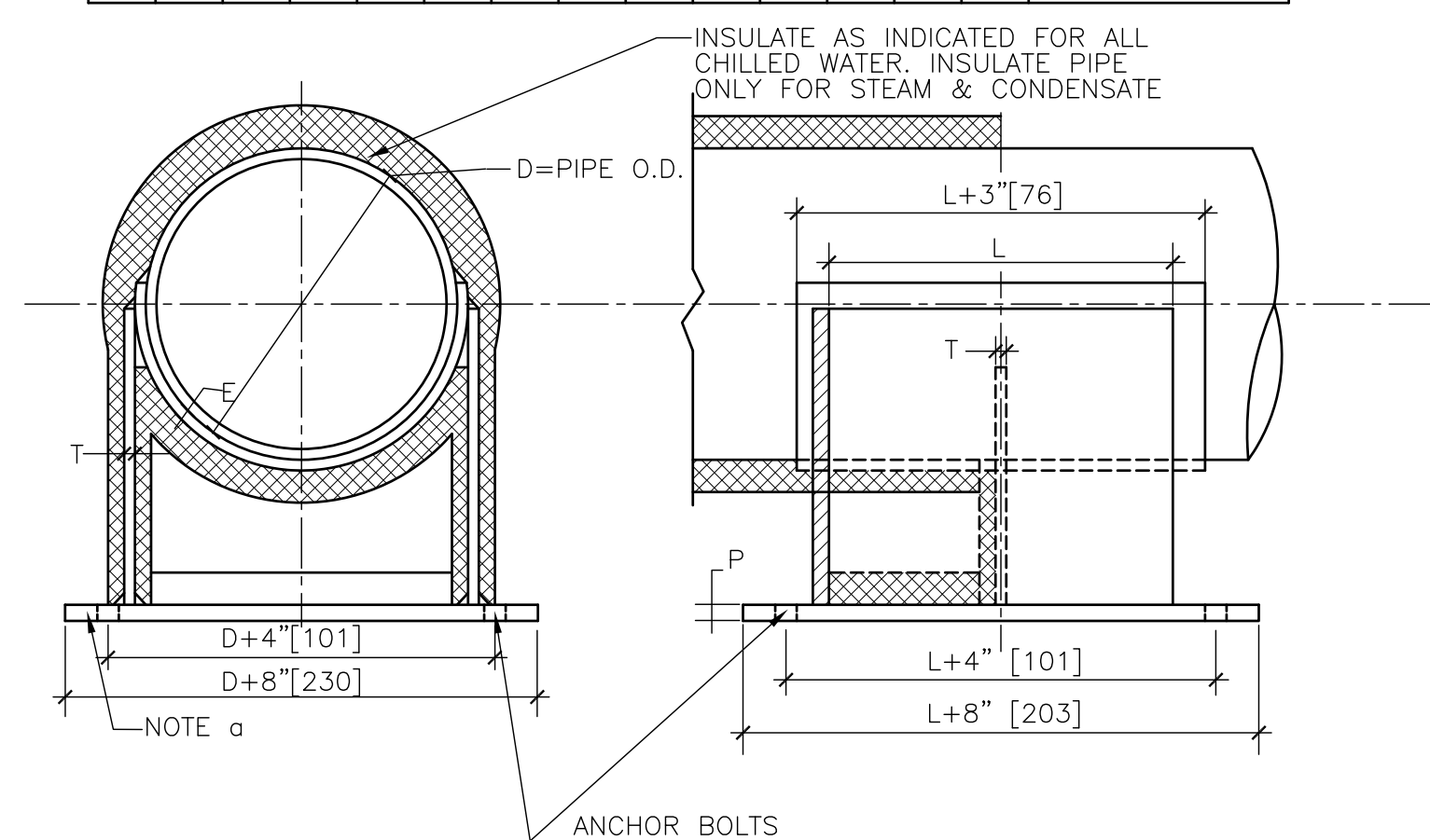


PIPE ANCHOR SCHEDULE										
D		P		C		N		S		BOLT PATTERN
IN	MM	IN	MM	IN	MM	IN	MM	IN	MM	
4"	102	$\frac{5}{8}$ "	16	$\frac{3}{4}$ "	19	4"	102	$\frac{3}{4}$ "	19	
3"	76	$\frac{1}{2}$ "	13	$\frac{1}{2}$ "	13	4"	102	$\frac{3}{8}$ "	16	
2½"	64	$\frac{3}{8}$ "	10	$\frac{1}{2}$ "	10	4"	102	$\frac{3}{8}$ "	16	
2"	51	$\frac{3}{8}$ "	10	$\frac{1}{2}$ "	10	4"	102	$\frac{3}{8}$ "	16	
1½"	38	$\frac{3}{8}$ "	10	1"	6	4"	102	2"	13	

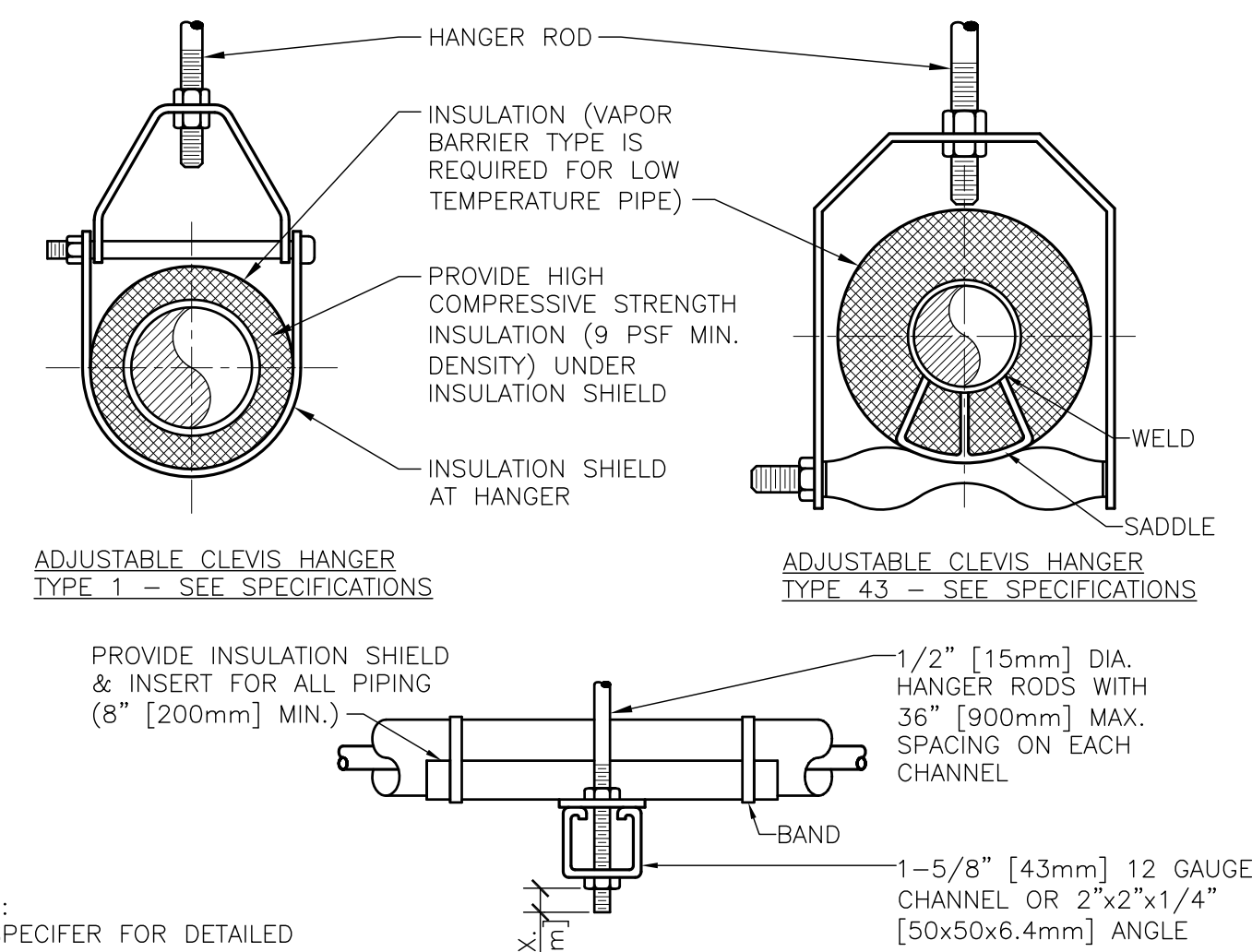


1 SMALL PIPE ANCHOR 1½" - 4"

PIPE ANCHOR SCHEDULE												BOLT PATTERN
D		M		P		E		N		S		
IN	MM	IN	MM	IN	MM	IN	MM	IN	MM	IN	MM	
6"	152	8"	216	3"	76	8"	203	6"	152	8"	216	
8"	203	10"	254	3"	76	10"	254	6"	152	10"	254	
10"	254	12"	305	3"	76	12"	305	6"	152	12"	305	
12"	305	14"	356	3"	76	14"	356	6"	152	14"	356	
14"	356	16"	406	3"	76	16"	406	13"	412	16"	406	
16"	406	18"	457	3"	76	18"	457	13"	412	18"	457	
18"	457	20"	508	1"	25	8"	203	13"	412	7"	178	

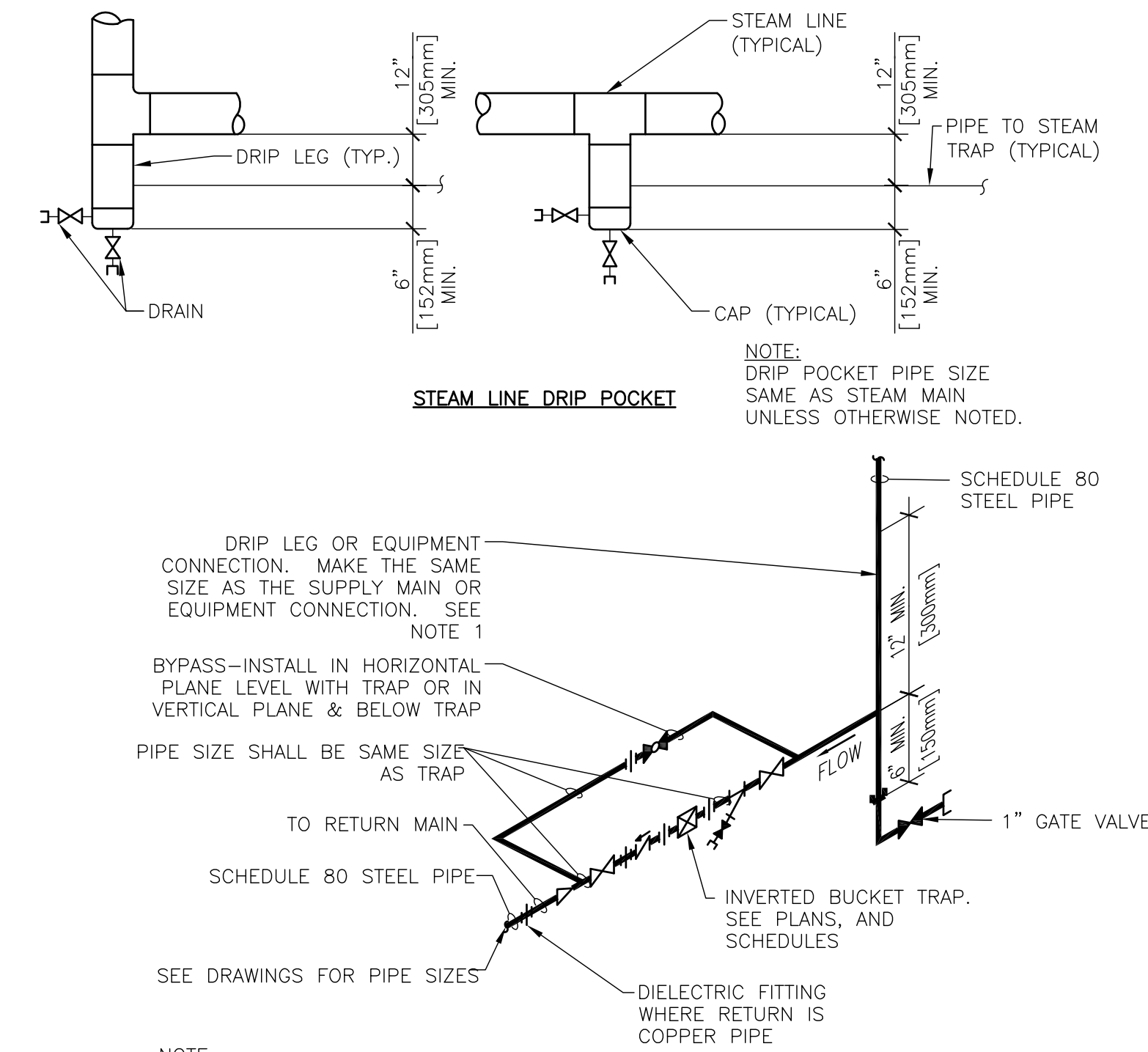


2 LARGE PIPE ANCHOR 6" -18"

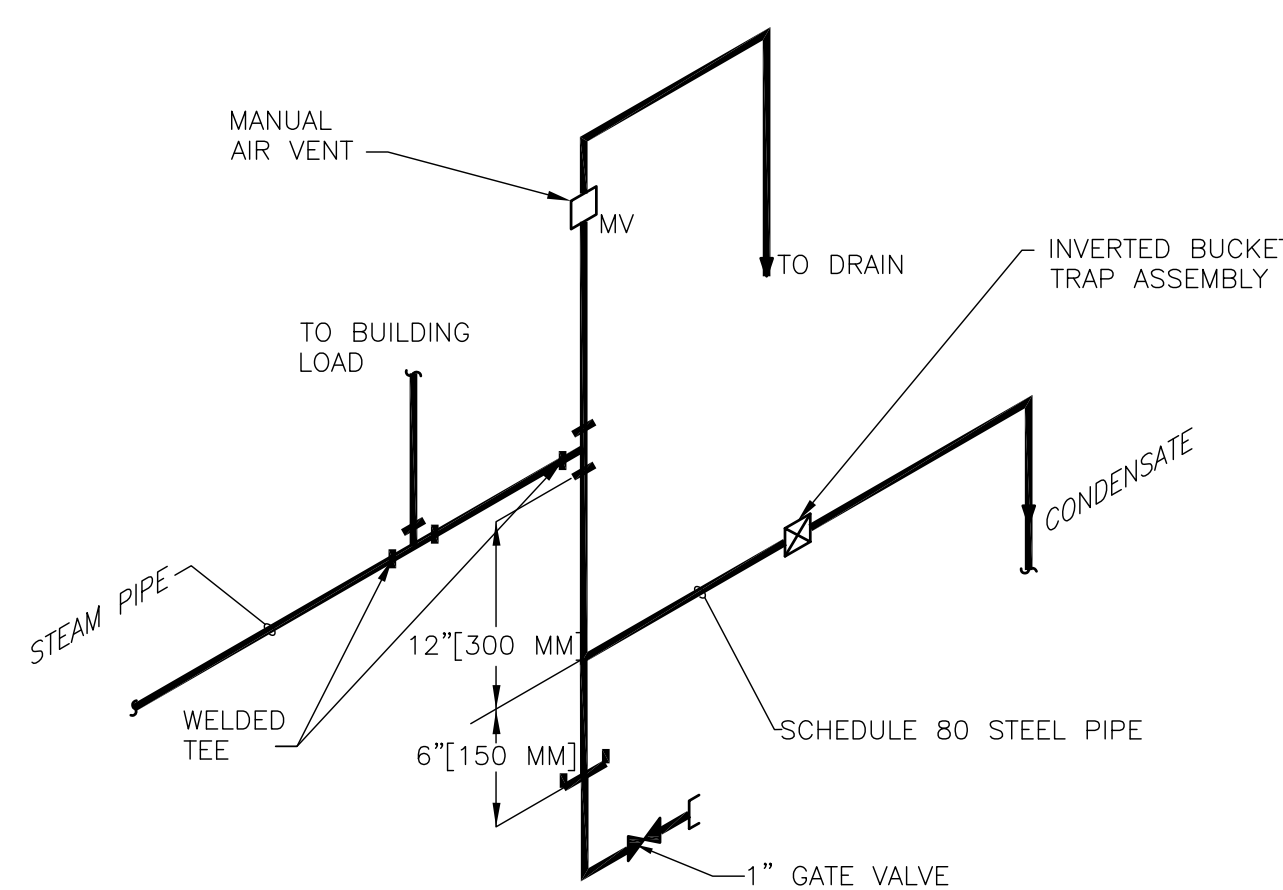


SIDE VIEW TRAPEZE HANGER FOR UP TO 1000 LB. [453KG] UNIFORM LOAD																					
MAXIMUM PIPE/TUBING SUPPORT SPACING																					
NO.	SIZE	N ₁ (mm)	THRU 3/4 THRU [20]	1 [25]	1 1/4 [32]	1 1/2 [40]	2 [51]	2 1/2 [64]	3 [76]	4 [102]	5 [128]	6 [152]	8 [203]	10 [254]	12 [305]	14 [356]	16 [406]	18 [457]	20 [508]	24 [609]	
PIPE (mm)	(in)	[2100]	[2100]	[2100]	[2100]	[2100]	[2100]	[2100]	[2100]	[2100]	[2100]	[2100]	[2100]	[2100]	[2100]	[2100]	[2100]	[2100]	[2100]	[2100]	
TUBING (mm)	(in)	[1800]	[2100]	[2400]	[2400]	[2400]	[2400]	[2400]	[2400]	[2400]	[2400]	[2400]	[2400]	[2400]	[2400]	[2400]	[2400]	[2400]	[2400]	[2400]	
NOTE: FOR TRAPEZE HANGER TAKE SPACING OF SMALLEST SIZE ON TRAPEZE.																					

3 PIPE HANGERS



INVERTED BUCKET STEAM TRAP ASSEMBLY



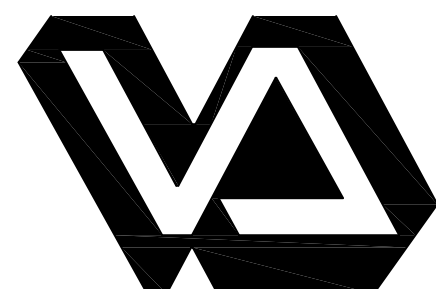
5 **END OF STEAM LINE DRIP TRAP**
NTS



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PROJECT LEAD:

**CHEQUAMEGON BAY
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Drawing Title
DETAILS

Approved: Project Director

Project Title	Provide Fisher House Infrastructure
---------------	-------------------------------------

Location	VA Medical Center, Milwaukee, WI
----------	----------------------------------

Date
22 April 2013

Checked By:	RGE
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Drawn By:
JJP

Project Number
695-13-118

	Drawing Number

MS102

Office of
Facilities
Management



FINAL CONSTRUCTION DOCUMENTS

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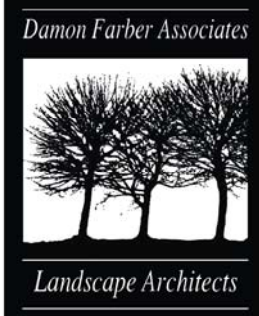
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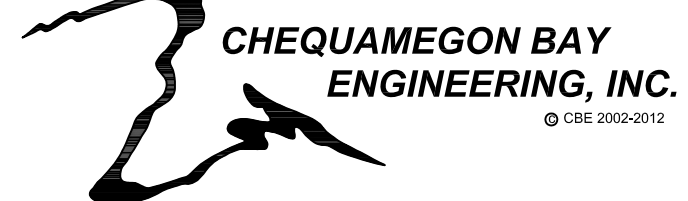


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Drawing Title
Electrical Site Plan -
Existing Conditions

Approved: Project Director

Project Title
Provide Fisher House Infrastructure

Location
VA Medical Center, Milwaukee, WI

Date
22 April 2013

Checked By:
RWW

Drawn By:
RWW

Project Number
695-13-118

Building Number
-

Drawing Number
E100

Office of
Facilities
Management



GENERAL NOTES

1. E E DENOTES EXISTING UNDERGROUND ELECTRICAL CABLEING. SEE NOTES FOR IDENTIFICATION.
2. T T T DENOTES EXISTING UNDERGROUND COMMUNICATIONS CABLEING, COULD BE VOICE TELEPHONE, FIBER OPTIC OR CABLE TV.
3. ALL EXISTING UNDERGROUND UTILITIES AS NOTED ON THIS PLAN SHALL BE CONSIDERED AS EXISTING TO REMAIN AS IS, UNLESS OTHERWISE NOTED.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF ALL EXISTING CONDITIONS PRIOR TO THE START OF ANY WORK.
5. ALL WORK ASSOCIATED WITH WE ENERGIES RELOCATION OF THE EXISTING PAD-MOUNTED TRANSFORMER AND PRIMARY FEEDER SHALL BE COORDINATED WITH THE UTILITY (WE ENERGIES) AS REQUIRED. THE MAIN CONTACT FOR THE VA CAMPUS FOR WE ENERGIES SHALL BE JESSICA THIBIDO-JOHNSON AT TELEPHONE (414) 221-3932. SECONDARY CONTACT PERSON AT WE ENERGIES SHALL BE BOB BARCZAK AT TELEPHONE (414) 944-5779.
6. IN THE CASE OF CONFLICTS OR DISCREPANCIES WITHIN OR AMONG THE CONTRACT DRAWINGS, THE BETTER QUALITY, MORE STRINGENT REQUIREMENTS OR GREATER QUANTITY OF WORK, AS DETERMINED BY THE GOVERNMENT, SHALL BE PROVIDED.

KEYED NOTES

- 1 LOCATION OF EXISTING MANHOLES FOR ELECTRICAL AND COMMUNICATIONS DISTRIBUTION WITHIN THE ZABLOCKI VA CAMPUS. ALL LOCATIONS ARE EXISTING TO REMAIN AS IS WITH NO MODIFICATIONS, UNLESS NOTED OTHERWISE.
- 2 LOCATION OF EXISTING PAD-MOUNTED HIGH-VOLTAGE PEDESTAL (HP-16) FOR PRIMARY ELECTRICAL DISTRIBUTION AT 13.2 KV. EQUIPMENT IS EXISTING TO REMAIN AS IS.
- 3 LOCATION OF EXISTING PAD-MOUNTED HIGH-VOLTAGE SWITCH (HS-16) FOR BUILDING 119 TRANSFORMER (XF-119). EQUIPMENT IS EXISTING TO REMAIN. RTE DISTRIBUTION MODEL #310L73A03A. 3-PHASE, 15 KV NOMINAL, 15.5 KV MAX.
- 4 LOCATION OF EXISTING PAD-MOUNTED TRANSFORMER (XF-119) FOR BUILDING 119 TO WEST (FORMER MEDICAL INCINERATOR, NO LONGER IN USE). TRANSFORMER IS 75 KVA, 3-PHASE, 13.2 KV PRIMARY TO 208Y/120-VOLT, 3-PHASE, 4-WIRE SECONDARY. EQUIPMENT TO BE REMOVED AND REPLACED IN THE SAME LOCATION WITH NEW PAD-MOUNTED TRANSFORMER. REFER TO SHEET E200 FOR MORE INFORMATION.
- 5 LOCATION OF EXISTING SITE LIGHTING POLE FIXTURE AS NOTED EXISTING TO REMAIN (EXIST). ELECTRICAL FEEDER SHOWN IS FOR THE BELOW GRADE SITE LIGHTING CIRCUIT AT 208-VOLT, 1-PHASE CIRCUIT IS EXISTING TO REMAIN AND BE ADJUSTED FOR NEW SITE LIGHTING. REFER TO SHEET E200. EXISTING HANDHOLE FOR NEW SITE LIGHTING TO REMAIN.
- 6 LOCATION OF EXISTING SITE LIGHTING POLE FIXTURE AND HANDHOLE TO BE REMOVED (ER). EXISTING SITE LIGHTING CIRCUIT TO BE ADJUSTED PER NEW WORK PLAN SHEET E200.
- 7 EXISTING CAMPUS POWER DISTRIBUTION (13.2 KV) AND ELECTRONIC SIGNAL DUCT BANK CONDUITS TO REMAIN AS IS. ELECTRICAL CONTRACTOR TO CONFIRM WITH VA AND OTHER SITE CONTRACTORS THAT EXISTING DISTRIBUTION CONDUITS ARE NOT DISTURBED OR DAMAGED DURING DEMOLITION WORK.
- 8 EXISTING UTILITY (WE ENERGIES) PAD-MOUNTED TRANSFORMER TO BE RELOCATED BY UTILITY (WE ENERGIES) AS PART OF THIS PROJECT TO AVOID THE LIMITS OF THE NEW CONSTRUCTION. COSTS FOR THIS WORK SHALL BE CARRIED IN THIS PROJECT. COORDINATE WITH THE GENERAL CONTRACTOR.
- 9 EXISTING UTILITY (WE ENERGIES) PRIMARY CABLEING BELOW GRADE TO BE RELOCATED BY UTILITY (WE ENERGIES) TO AVOID THE LIMITS OF THE NEW CONSTRUCTION. COSTS FOR THIS WORK SHALL BE CARRIED IN THE PROJECT. COORDINATE WITH THE GENERAL CONTRACTOR.
- 10 WE ENERGIES PRIMARY LINE ABANDONED BELOW GRADE OR REMOVED DURING PAST PROJECT WORK. ELECTRICAL CONTRACTOR TO CONFIRM WITH WE ENERGIES AND REMOVE AS PART OF THE TRANSFORMER RELOCATION PORTION OF THIS PROJECT (SEE KEYED NOTES 8,9)
- 11 UNDERGROUND TELEPHONE CABLEING TO BE RELOCATED TO AVOID LIMITS OF NEW CONSTRUCTION. REFER TO THE NEW WORK PLAN ON SHEET E300 FOR COMMUNICATIONS WORK FOR PROPOSED RELOCATION.

1 ELECTRICAL SITE PLAN - EXISTING CONDITIONS AND DEMOLITION
E100 1" = 20'-0"



three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot
one sixteenth inch = one foot



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PHASING OF WORK NOTES:

PHASE I – SITE WORK
CONSISTS OF ALL GRADING, ROAD IMPROVEMENTS, CURB & GUTTER, UTILITY EXTENSIONS AND RELOCATIONS, STEAM TUNNEL AND STEAM PIPING SYSTEM INSTALLATION, GAS METER UPGRADE, LANDSCAPING, SIDEWALK INSTALLATION, SITE LIGHTING AND ANY OTHER IMPROVEMENTS AS ILLUSTRATED ON THE PLANS.

PHASE II – FUTURE BUILDING SYSTEMS
CONSISTS OF ALL FISHER HOUSE BUILDING SYSTEM INSTALLATIONS AS REQUIRED BY THE PLANS (REFERENCE MECHANICAL AND ELECTRICAL DRAWINGS FOR DETAILED SCOPE OF WORK). PHASE II CONSISTS OF INSTALLATION OF BUILDING SYSTEM IMPROVEMENTS AFTER SIGNIFICANT CONSTRUCTION OF THE FISHER HOUSE IS COMPLETE (UNDER SEPARATE CONTRACT). PHASE II IS TO BE COORDINATED DIRECTLY WITH VA COR AND FISHER HOUSE REPRESENTATIVE. WORK IS TO BE COMPLETED AFTER THE FISHER HOUSE BUILDING IS AT LEAST 80% COMPLETE.

ELECTRICAL SITE PLAN - POWER AND LIGHTING
1" = 20'-0"



LIGHT FIXTURE SCHEDULE

TAG	LAMP DATA		DESCRIPTION	MAKE	LIGHTING FIXTURE		MOUNT	CEILING TYPE	FIXTURE DEPTH	ACCEPTABLE MANUFACTURERS	VOLT	SEE NOTE
	NO	TYPE			CATALOG NUMBER							
A	—	LED WITH UNIT	LED TUNNEL LIGHT – 22" SURFACE STRIP FIXTURE	LUMINAIRE LTG	VFP42HO-28WHP-4000K-120-CP-BLK		SURFACE	CONCRETE	2.70"	DAYBRITE, LITHONIA	120	1
B	—	LED WITH UNIT	SITE LIGHTING LED AREA LIGHT WITH 20-FOOT POLE	GARDCO	SFA-1-3-130LA-NW-UNIV-BLP		POLE	NONE	3"	MCGRAW EDISON, METALUX	208	2

NOTES:

- ELECTRICAL CONTRACTOR TO CONFIRM THE VOLTAGE OF THE EXISTING TUNNEL LIGHTING CIRCUIT PRIOR TO INSTALLATION TO CONFIRM PROPER DRIVER IS INCLUDED. PROVIDE MULTI-VOLT DRIVER IF AVAILABLE (120 TO 277V)
- FIXTURE TO BE MOUNTED ON A 20-FOOT TALL, ROUND TAPERED STEEL POLE IN BLACK FINISH TO MATCH EXISTING POLES ON THE ZABLOCKI VA CAMPUS.

GENERAL NOTES

- E — E — DENOTES EXISTING UNDERGROUND ELECTRICAL CABLING. SEE NOTES FOR IDENTIFICATION.
- T — T — DENOTES EXISTING UNDERGROUND COMMUNICATIONS CABLING, COULD BE VOICE TELEPHONE, FIBER OPTIC OR CABLE TV.
- ALL EXISTING UNDERGROUND UTILITIES AS NOTED ON THIS PLAN SHALL BE CONSIDERED AS EXISTING TO REMAIN AS IS, UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF ALL EXISTING CONDITIONS PRIOR TO THE START OF ANY WORK.
- ALL WORK ASSOCIATED WITH WE ENERGIES RELOCATION SHALL BE COORDINATED WITH THE UTILITY AS REQUIRED. THE MAIN CONTACT FOR THE VA CAMPUS FOR WE ENERGIES SHALL BE JESSICA THIBDO-JOHNSON AT TELEPHONE (414) 221-3932. SECONDARY CONTACT PERSON AT WE ENERGIES SHALL BE BOB BARCZAK AT TELEPHONE (414) 944-5779.
- IN THE CASE OF CONFLICTS OR DISCREPANCIES WITHIN OR AMONG THE CONTRACT DRAWINGS, THE BETTER QUALITY, MORE STRINGENT REQUIREMENTS OR GREATER QUANTITY OF WORK, AS DETERMINED BY THE GOVERNMENT, SHALL BE PROVIDED.

KEYED NOTES

- PROPOSED LOCATION FOR NEW 225 KVA, 3-PHASE TRANSFORMER, PAD-MOUNTED ON NEW CONCRETE SLAB. 13.2 KV PRIMARY TO 208Y/120-VOLT, 3-PHASE, 4-WIRE SECONDARY. PROVIDE CONCRETE PAD FOR TRANSFORMER AS REQUIRED. UTILIZE TAPS TO INCREASE SECONDARY VOLTAGE ABOVE 208-VOLT TO ACCOUNT FOR VOLTAGE DROP TO FISHER HOUSE BUILDING. COORDINATE EXACT VOLTAGE WITH VA AND FISHER HOUSE CONSTRUCTION TEAM IN FIELD.
- NEW 225 KVA TRANSFORMER TO SUPPLY POWER (FROM SECONDARY) TO EXISTING BUILDING 119 VIA EXISTING CONDUIT DUCTBANK. ADJUST SECONDARY FEEDERS TO NEW TRANSFORMER LOCATION AS REQUIRED.
- NEW 225 KVA TRANSFORMER TO SUPPLY POWER (FROM SECONDARY) TO NEW FISHER HOUSE STRUCTURE. PROVIDE CONDUITS AT 4'-36" BELOW GRADE TO A 24" x 36" HANDHOLE PULL BOX LOCATION AT LIMITS OF FISHER HOUSE CONSTRUCTION AREA. PULL BOX TO BE USED BY FISHER HOUSE CONTRACTOR TEAM TO EXTEND POWER (FEEDER AND CONDUITS) TO THE FISHER HOUSE TO THE ELECTRICAL DISTRIBUTION PANEL. REFER TO DETAIL "1/E400" FOR UNDERGROUND CONCRETE PULLBOX DETAIL.
- APPROXIMATE LOCATION OF EXISTING FISHER HOUSE MECHANICAL EQUIPMENT ROOM WHERE ELECTRICAL DISTRIBUTION SHALL BE LOCATED. THIS ROOM TO HOUSE 400-AMPERE, 208Y/120-VOLT, 3-PHASE 4-WIRE MAIN DISTRIBUTION PANEL "MDP" FOR FISHER HOUSE BUILDING.
- PROVIDE A NEW 12"x18" HANDHOLE PULL BOX TO INTERCEPT THE EXISTING 208-VOLT SITE LIGHTING CIRCUIT AS SHOWN. EXTEND EXISTING CIRCUIT TO NEW POLE LOCATIONS ON NORTH SIDE OF ROAD AND PARKING AREA AS SHOWN USING (2) #8 AWG, (1) #10 GROUND IN 1" PVC CONDUIT BELOW GRADE.
- AFTER THE FINAL NEW POLE LOCATION AT WEST SIDE OF NEW CONSTRUCTION, EXTEND THE 208-VOLT SITE LIGHTING CIRCUIT BACK TO THE EXISTING HANDHOLE PULL BOX AS SHOWN TO TIE BACK INTO THE REMAINING CIRCUIT UNAFFECTED BY THE NEW CONSTRUCTION. CARE SHOULD BE TAKEN TO KEEP EXISTING SITE LIGHTING POLES ILLUMINATED DURING CONSTRUCTION. REFER TO DETAIL "1/E400" FOR UNDERGROUND CONCRETE PULLBOX DETAIL.
- EXISTING SITE LIGHTING POLE AND SITE LIGHTING CIRCUIT TO REMAIN AS IS WITH NO MODIFICATIONS WHERE SHOWN.
- PROVIDE NEW CONCRETE POLE BASE FOR SITE LIGHTING POLES PER POLE BASE DETAIL "2/E400". PROVIDE SETBACK DISTANCE OF 24" FROM CURB EDGE OR SIDEWALK EDGE FOR INSTALLATION OF NEW CONCRETE POLE BASE.
- AT THIS POLE LOCATION ONLY, CONTRACTOR TO COORDINATE LOCATION OF NEW POLE BASE WITH EXISTING STEAM TUNNEL PRIOR TO INSTALLATION.
- PROVIDE TYPE "A" FIXTURES WITHIN NEW STEAM TUNNEL AS SHOWN. SURFACE MOUNT FIXTURES TO CEILING OF TUNNEL. CONNECT TO THE EXISTING TUNNEL LIGHTING CIRCUIT INSTALLED IN THE EXISTING STEAM TUNNEL. CONTRACTOR TO CONFIRM THE CIRCUIT HAS CAPACITY FOR THE ADDITIONAL LIGHTING LOAD PRIOR TO INSTALLATION. BRING TO THE ATTENTION OF THE ENGINEER IF THE CIRCUIT DOES NOT HAVE SUFFICIENT CAPACITY.
- PROVIDE NEW PRIMARY CABLING BETWEEN HIGH VOLTAGE SWITCH (HVS-16) AND NEW TRANSFORMER LOCATION. REFER TO ONE LINE DIAGRAM ON SHEET E400 FOR MORE INFORMATION. INSTALL CONDUIT IN CONCRETE DUCT BANK AS REQUIRED BY VA STANDARDS. EXISTING CONDUITS CAN BE REUSED IF POSSIBLE.
- PROVIDE A NEW 24" x 36" HANDHOLE PULL BOX LOCATION SOMEWHERE NEAR NEW TRANSFORMER LOCATION TO INTERCEPT EXISTING FEEDER TO BUILDING 119. PROVIDE SPLICE WITHIN PULL BOX AND EXTEND NEW FEEDER (CONDUIT AND WIRE) TO SECONDARY OF NEW TRANSFORMER AS NEEDED. REFER TO THE ONE LINE DIAGRAM ON SHEET E400. REFER TO DETAIL "1/E400" FOR UNDERGROUND CONCRETE PULLBOX DETAIL.
- PROPOSED FINAL LOCATION OF RELOCATED TRANSFORMER BY WE ENERGIES AND PROPOSED NEW ROUTING OF UNDERGROUND PRIMARY CABLING BY WE ENERGIES. ALL WORK TO BE COMPLETED BY WE ENERGIES. GENERAL CONTRACTOR TO CARRY ALLOWANCE FOR THIS WORK WITHIN THE PROJECT BID AND SHALL COORDINATE THIS WORK WITH WE ENERGIES ONCE PROJECT IS UNDER CONSTRUCTION.
- PROVIDE CONCRETE ENCASED DUCT BANK FOR POWER AND FIRE ALARM CONDUITS FOR FISHER HOUSE AS SHOWN. REFER TO E300 FOR FIRE ALARM WORK. REFER TO DETAIL "3/E400" FOR DUCT BANK DETAILS.

FINAL CONSTRUCTION DOCUMENTS

		 <div>Dept. of Veterans Affairs Medical Center 5000 W. National Avenue Milwaukee, WI</div>		CONSULTANTS: <div><div>THE MATRIX GROUP ENGINEERING CONSULTANTS</div></div> <div><div>Damon Farber Associates 923 Nicollet Mall Minneapolis, MN 55402 phone 612.332.7522 fax 612.332.0936 www.damonfarber.com</div></div> <div><div>CHEQUAMEGON BAY ENGINEERING, INC. © CRE 2002-2012</div></div> <div><div>ASHLAND, WI 211 6TH STREET WEST ASHLAND, WI 54806 PHONE: (715) 682-6004 FAX: (715) 682-6025 MILWAUKEE, WI 933 N. MAYFAIR RD., SUITE 100 MILWAUKEE, WI 53226 PHONE: (414) 258-0064 FAX: (414) 258-6154</div></div>	PROJECT LEAD:  <div>CHEQUAMEGON BAY ENGINEERING, INC. © CRE 2002-2012</div>	Drawing Title Electrical Site Plan - Power and Lighting	Project Title Provide Fisher House Infrastructure	Project Number 695-13-118	Office of Facilities Management
Revisions:						Date	Approved: Project Director	Location VA Medical Center, Milwaukee, WI	
			Date 22 April 2013	Checked By: RWW	Drawn By: RWW				

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A

B

C

D

E

F



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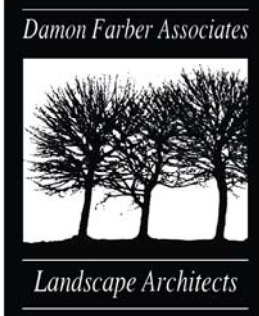
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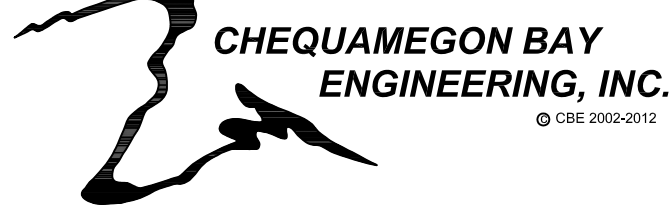


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Drawing Title

Electrical Site Plan -
Low Voltage Systems

Approved: Project Director

Project Title

Provide Fisher House Infrastructure

Location

VA Medical Center, Milwaukee, WI

Date
22 April 2013

Checked By:
RWW

Drawn By:
RWW

FINAL CONSTRUCTION DOCUMENTS

Project Number

695-13-118

Building Number

-

Drawing Number

E300

Office of
Facilities
Management



GENERAL NOTES

1. ——— T ——— T ——— DENOTES EXISTING UNDERGROUND COMMUNICATIONS CABLING, COULD BE VOICE TELEPHONE, FIBER OPTIC OR CABLE TV.
2. ALL EXISTING UNDERGROUND UTILITIES AS NOTED ON THIS PLAN SHALL BE CONSIDERED AS EXISTING TO REMAIN AS IS, UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF ALL EXISTING CONDITIONS PRIOR TO THE START OF ANY WORK.
4. ALL LOW VOLTAGE CABLING INDICATED TO BE INSTALLED WITHIN CONDUITS SHALL BE INSTALLED IN COMPLIANCE WITH ALL VA STANDARDS, INCLUDING THE USE OF FLEXIBLE INNERDUCT TUBING. ALL CONDUITS INSTALLED BELOW GRADE OUTDOORS FOR LOW VOLTAGE SYSTEMS SHALL BE CONCRETE ENCASED IN DUCT BANK. REFER TO DUCT BANK DETAILS "3/E400"
5. ALL COMMUNICATIONS 4" CONDUITS FOR LOW VOLTAGE SYSTEMS SHALL RECEIVE FOUR (4) 1" INNERDUCT PATHWAYS WITH PULL STRING INSTALLED WITHIN CONDUIT BY CONTRACTOR.
6. VOICE CABLING SCOPE OF WORK: CONTRACTOR TO INSTALL A 100-PAIR VOICE CABLE FROM EXISTING FBX LOCATION IN BUILDING 111 TO FISHER HOUSE. 50-PAIR TO BE TERMINATED AND BE ACTIVE FOR USE BY THE FISHER HOUSE. 50-PAIR TO BE LEFT UN-ACTIVE FOR FUTURE POTENTIAL USE.
7. DATA NETWORK CABLING SCOPE OF WORK: CONTRACTOR TO INSTALL A SINGLE MODE FIBER OPTIC CABLING TO FISHER HOUSE FROM EXISTING FIBER OPTIC NETWORK DISTRIBUTION LOCATED ON A PATHWAY BETWEEN BUILDING 111 AND BUILDING 112 (BOILER PLANT)
8. FIRE ALARM CABLING SCOPE OF WORK: CONTRACTOR TO INSTALL MULTI-MODE FIBER OPTIC CABLING TO TIE NEW FISHER HOUSE FIRE ALARM SYSTEM INTO THE EXISTING VA CAMPUS FIRE ALARM NETWORK LOOP. CONNECT TO EXISTING FIRE ALARM NETWORK LOOP AT BUILDING 119.
9. CABLE TV SCOPE OF WORK: CONTRACTOR TO EXTEND CABLE TV SERVICE FROM AVAILABLE DISTRIBUTION IN THE MAUSOLEUM AIR VENT TO FISHER HOUSE BUILDING AS REQUIRED. ONCE INSIDE FISHER HOUSE, PROVIDE THE NECESSARY LIGHTNING PROTECTION ON THE INCOMING LINE AND A SIGNAL AMPLIFIER AS NECESSARY.
10. SECURITY SYSTEM VIDEO SURVEILLANCE SCOPE OF WORK: CONTRACTOR TO PROVIDE A VIDEO SURVEILLANCE SYSTEM CONSISTING OF THREE (3) CAMERAS AS SHOWN WITH A DVR SYSTEM (RACK MOUNTED) FOR VIDEO STORAGE. DVR SYSTEM TO BE ACCESSIBLE TO THE VA CAMPUS POLICE DEPARTMENT VIA THE CAMPUS DATA NETWORK WHEN NECESSARY TO REVIEW THE DVR VIDEO STORAGE. CONTRACTOR SHALL COORDINATE WITH THE FISHER HOUSE CONTRACTORS IN FIELD FOR INSTALLATION OF THE CAMERAS ON THE BUILDING.
11. COORDINATE INSTALLATION (MOUNTING AND CABLING) OF VIDEO SURVEILLANCE CAMERAS WITHIN BUILDING WITH FISHER HOUSE CONTRACTOR TEAM AND THE VA CAMPUS AS REQUIRED AS PART OF PHASE II SCOPE OF WORK.
12. IN PHASE II SCOPE OF WORK, ALL LOW-VOLTAGE WORK INDICATED SHALL BE MOUNTED INTO DATA EQUIPMENT RACK TO BE FURNISHED AND INSTALLED BY THE FISHER HOUSE CONTRACTOR.
13. ALL LOW-VOLTAGE HORIZONTAL CABLING DISTRIBUTION (OUTLETS AND CABLE) WITHIN THE FISHER HOUSE BUILDING SHALL BE INSTALLED BY FISHER HOUSE CONTRACTORS UNDER A SEPARATE SCOPE OF WORK. OUR SCOPE OF WORK IS TO INSTALL CABLING TO THE BUILDING ONLY, UNLESS NOTED OTHERWISE.
14. IN THE CASE OF CONFLICTS OR DISCREPANCIES WITHIN OR AMONG THE CONTRACT DRAWINGS, THE BETTER QUALITY, MORE STRINGENT REQUIREMENTS OR GREATER QUANTITY OF WORK, AS DETERMINED BY THE GOVERNMENT, SHALL BE PROVIDED.

KEYED NOTES

- 1 LOCATION OF EXISTING MAUSOLEUM AIR VENT BUILDING. INSIDE THIS FACILITY ARE ACCESS TO TUNNELS TO EXISTING BUILDING FOR A LOW-VOLTAGE CABLING PATHWAYS. MAUSOLEUM AIR VENT BUILDING TO BE USED TO INSTALL 100-PAIR VOICE CABLING AND CAMPUS CABLE TV DISTRIBUTION TO THE FISHER HOUSE BUILDING.
- 2 PROVIDE TWO (2) 4" CONDUITS ALONG IN EXISTING STEAM TUNNEL FROM MAUSOLEUM AIR VENT AS SHOWN. PROVIDE 18"x18"x6" PULL BOX WITH REMOVABLE COVER IN TUNNEL WHERE CONDUITS SHALL EXIT AND MOVE WEST.
- 3 TWO (2) 4" CONDUITS SHALL LEAVE TUNNEL AND SHALL CROSS EXISTING PAVED DRIVE AS SHOWN. TRENCH CONDUITS BELOW PAVED AREA AND PATCH TO RESTORE AS-FOUND EXISTING CONDITIONS.
- 4 PROVIDE A 30" WIDE x 48" LONG x 36" DEEP BELOW GRADE HANDHOLE PULL BOX FOR LOW-VOLTAGE CABLING. EXTEND TWO (2) 4" CONDUITS AS NOTED PREVIOUSLY TO THIS LOCATION. BOX TO HAVE SUFFICIENT CAPACITY TO ALLOW FOR CABLING TO BE COILED AND LEFT FOR FUTURE EXTENSION TO THE FISHER HOUSE BUILDING WHEN COMPLETED. CONTRACTOR TO LEAVE A MINIMUM OF 150-FEET OF SLACK CABLING TO ALLOW FOR THIS FUTURE EXTENSION. REFER TO DETAIL "1/E400" FOR UNDERGROUND CONCRETE PULLBOX DETAIL.
- 5 APPROXIMATE LOCATION OF EXISTING FISHER HOUSE MECHANICAL EQUIPMENT ROOM WHERE TELECOMMUNICATIONS EQUIPMENT RACKS ARE TO BE LOCATED. EQUIPMENT RACK AND TELECOM ENTRANCE CONDUITS LEAVING BUILDING PAST FOUNDATION WALLS TO BE INSTALLED BY FISHER HOUSE CONTRACTORS. COORDINATE IN FIELD WITH VA AND OTHER CONTRACTORS AS NEEDED.
- 6 LOCATION OF EXISTING SIGNAL COMMUNICATIONS MANHOLE (SIG-MH-2) CONTAINING 48 STRANDS OF UNUSED SINGLE MODE FIBER OPTIC CABLING. CONTRACTOR SHALL FUSION SPIKE AND EXTEND 12 STRANDS OF SINGLE-MODE FIBER OPTIC CABLING FOR EXTENSION TO THE FISHER HOUSE BUILDING FOR CONNECTION TO THE VA CAMPUS DATA NETWORK.
- 7 EXTEND TWO (2) 4" CONDUITS BELOW GRADE FROM SIGNAL MANHOLE (SIG-MH-2) TO NEW HANDHOLE PULL BOX AS SHOWN FOR DATA FIBER OPTIC CABLING. ONE ACTIVE – ONE SPARE CONDUIT. CONDUIT ROUTING CAN BE WITHIN SAME DUCT BANK AS VOICE/TV CABLING CONDUIT AS SHOWN (WHERE APPLICABLE)
- 8 UNDER PHASE II (SEE "PHASING OF WORK NOTES" ON THIS SHEET), CONTRACTOR SHALL RETURN TO COMPLETE THE INSTALLATION OF TWO (2) 4" CONDUITS TO BUILDING AND SHALL FINISH THE INSTALLATION OF THE CABLING TO THE BUILDING AND SHALL TERMINATE ALL CABLING WITH THE FISHER HOUSE BUILDING ON THE EQUIPMENT RACKS FURNISHED BY FISHER HOUSE CONTRACTOR.
- 9 PROVIDE ONE (1) 4" CONDUIT BELOW GRADE FROM BUILDING 119 TO THE FISHER HOUSE BUILDING FOR FIRE ALARM NETWORK MULTI-MODE FIBER OPTIC CABLING. FISHER HOUSE TO INSTALL A FIRE ALARM SYSTEM (SIEMENS MODEL FS-250 FIRESEKER) COMPATIBLE WITH THE ZABLOCKI VA CAMPUS STANDARDS. NEW FIRE ALARM PANEL MUST BE TIED INTO THE EXISTING SIEMENS NETWORK LOOP. PROVIDE ONE FIBER CABLE TO FISHER HOUSE AND ONE FIBER CABLE BACK TO BUILDING 119 TO COMPLETE LOOP. FIELD COORDINATE EXACT LOCATION OF FIRE ALARM PANEL WITHIN THE FISHER HOUSE BUILDING AND EXTEND CONDUIT TO THAT LOCATION. EXACT ROUTING IS NOT SHOWN ON THIS PLAN. COORDINATE IN FIELD WITH VA AND FISHER HOUSE CONSTRUCTION.
- 10 PROVIDE A SECURITY CAMERA MOUNTED TO CORNER OF BUILDING FOR VIEW OF FRONT ENTRY AND PARKING AREAS. CAMERA SHALL BE PAN-TILT-ZOOM AS INDICATED. REFER TO DETAIL "4/E400" FOR MORE INFORMATION.
- 11 PROVIDE A SECURITY CAMERA MOUNTED TO CORNER OF BUILDING FOR VIEW OF REAR PATIO AREA. CAMERA SHALL BE PAN-TILT-ZOOM AS INDICATED. REFER TO DETAIL "4/E400" FOR MORE INFORMATION.
- 12 PROVIDE A SECURITY CAMERA MOUNTED TO CEILING WITHIN ENTRY FOYER CORRIDOR AS SHOWN. CAMERA CAN BE FIXED AND SHALL BE AIMED BACK TOWARDS FRONT ENTRY DOOR AS SHOWN.
- 13 PROVIDE A NEW 12"x18" HANDHOLE PULL BOX TO INTERCEPT AND RELOCATE THE EXISTING TELEPHONE CABLING THAT CONFLICTS WITH NEW STREET AND PARKING AREAS. PROVIDE NEW CABLING AS NEEDED TO MATCH EXISTING AND ROUTE AROUND PAVED AREAS AS SHOWN. INSTALL CABLING IN A NEW 4" CONDUIT INSTALLED BELOW GRADE. REFER TO DETAIL "1/E400" FOR UNDERGROUND CONCRETE PULLBOX DETAIL.
- 14 PROVIDE CONCRETE ENCASED DUCT BANK FOR COMMUNICATIONS CONDUITS TO FISHER HOUSE AS SHOWN. REFER TO DETAIL "3/E400" FOR DUCT BANK DETAILS.

